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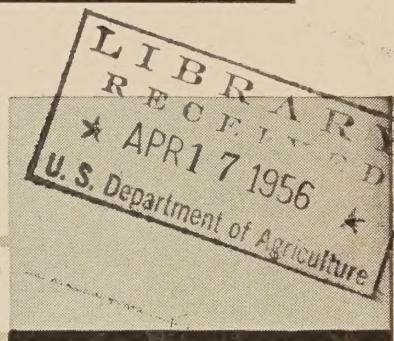
Ca

Succulent News



Showing the Very Best
in
Cacti and Succulents
1956
Our Eightieth Year

JOHNSON CACTUS GARDENS



PARAMOUNT, CALIFORNIA

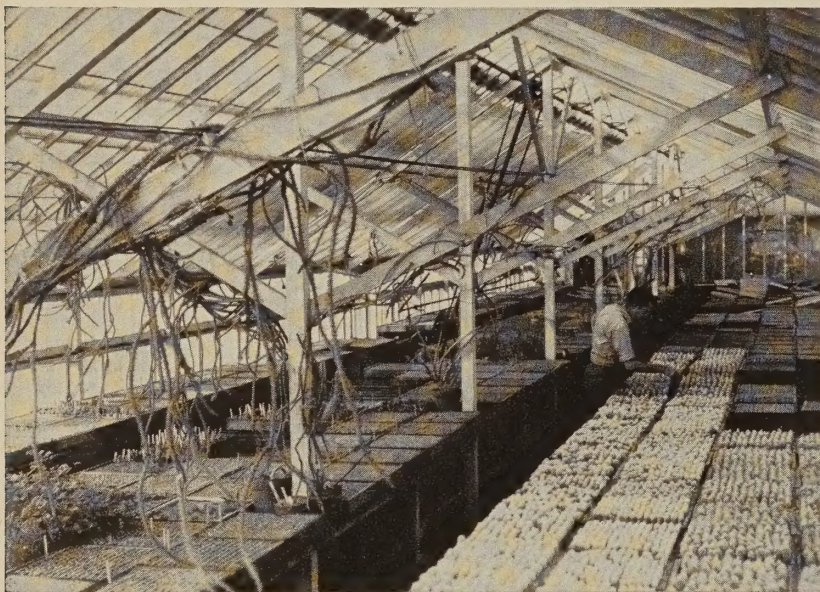


- Stone Plants
- Succulents
- Cacti
- Orchid Cacti
- Supplies

☆ Latest News from Cactus Land

1876-1956

OUR collection of cacti and succulents is one of the largest in the world the result of almost 50 years of collecting. Bringing together a large collection is a slow and laborious proceeding. Maintaining it under today's rigorous budgets is a difficult matter. The experienced fancier realizes that the rare and obscure species are limited in appeal and that to propagate, grow and catalog them is a most expensive process. The tendency today is, of necessity, to throw out all items that do not show a profit. However this is going to be a dreary world if this idea is carried to its logical conclusion. Our catalogs will continue to feature the rare, the new and the little known plants from the obscure corners of our earth.



SEEDLING CACTUS HOUSE

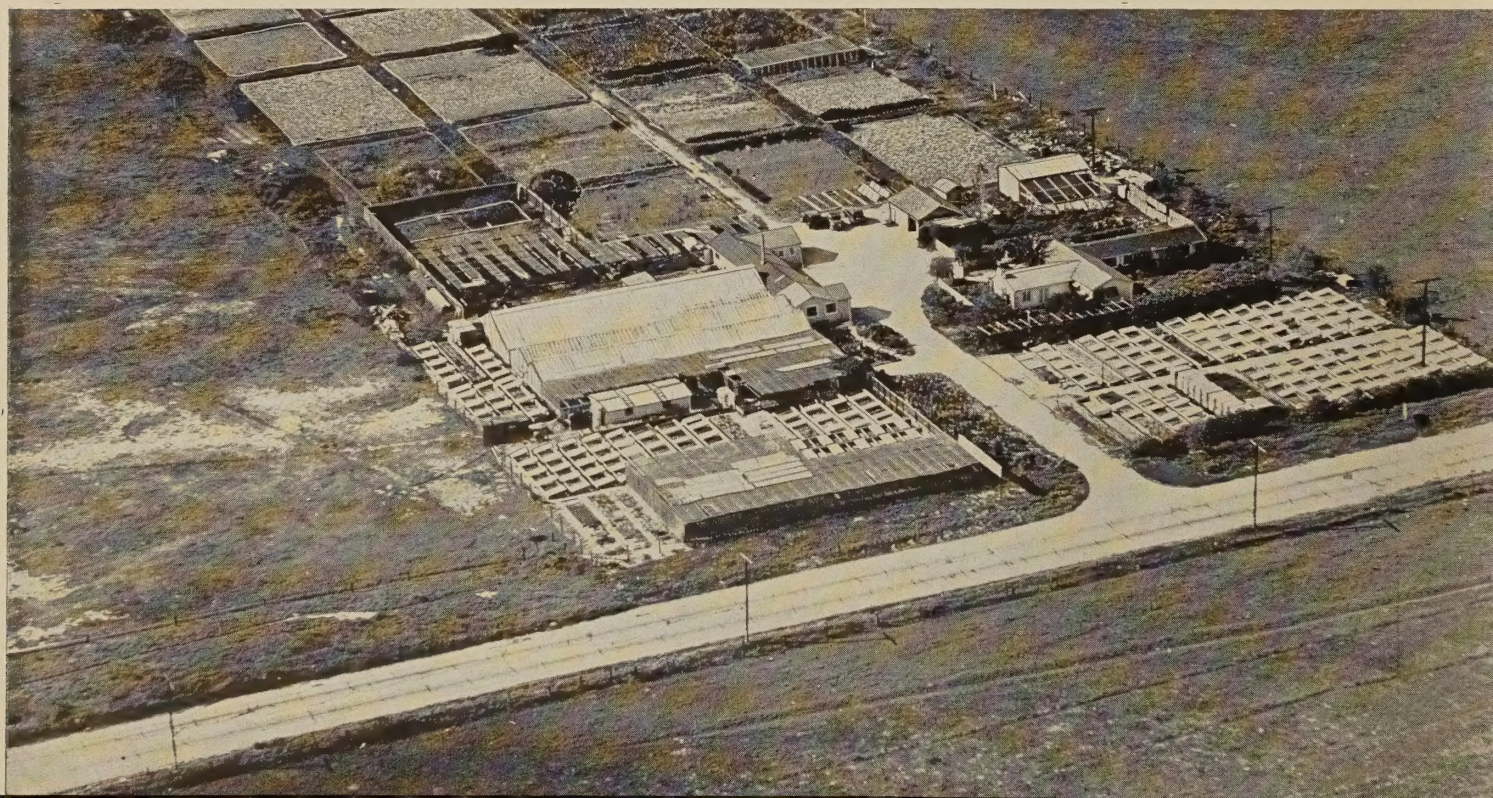
After the seed has germinated it is brought here where there is plenty of light and air. After the tiny plants are large enough to handle they are transplanted to boxes and later removed to outside frames.

Aerial view of our 10 acres of nurseries. Our specialties are Succulents and Cacti, also Water Lilies and Aquatics for the Garden Pool.



TO OUR FRIENDS

OUR friends I think would be interested to know something about how their plants are grown. The procedures and time element are quite different than in most other house or garden plants. It is generally only a few weeks or months until these are ready for your garden. Cacti and many succulents however are understandably much slower in growth. Most cacti—almost all the better ones, are raised from seed. Many cactus seeds are very tiny and it is months before they reach the size of a pea at which time they can be transplanted. The faster growing ones may reach an inch in diameter or two inches in height in about 18 months, others take two to three years. If grown too fast they lose their true character and thus their interest to you. The young plants require constant care, watering, spraying and adjustment to light. We grow them first in greenhouses and then when established in cold frames where they get the proper heat and sunlight to make a vigorous root system and well developed colored spines. The small, nice flowering types begin blossoming in their second and third year. Some of course take much longer. Many do not have adult character for three or four years. Thus the Barrel Cacti have ridges but for the first few years bear nipples like the Pin-cushions. We feel the collector would be much more pleased with older plants than are generally purchased. Fully characterized plants have beauty and interest that small plants cannot hope to have. The older plants are really a price bargain over smaller ones.



☆ SUCCULENTS

FROM ALL OVER THE WORLD

RARE, BEAUTIFUL and CURIOUS PLANTS



THESE colorful and fascinating desert plants are becoming increasingly popular with our patrons. Their appeal is universal. They complement modern decor with their soft colors and pleasing form. When used in landscaping in mild regions their coloring, form and ability to succeed in trying locations make them favorites.

The fancier who enjoys the pleasures of bringing together a collection finds a lifetime too short to fully explore his hobby. Their infinite variety is fascinating. Their homes are mostly in regions of moderate rainfall followed by long dry seasons. A few come from cold winter climates but the majority are from milder parts where frosts are light or non-existent. Africa, and its attendant islands; Mexico and South America supply the greater number. Asia and the tropics have only a few. Many families of plants have succulent members. You might be surprised to know that the Sunflower Family has many succulents, that the Lily Family has many more. Five families have most of the cultivated species. Ice Plant (Aizoaceae); Stonecrop (Crassulaceae); Spurge (Euphorbiaceae); Lily (Liliaceae); Milkweed (Asclepiadaceae).

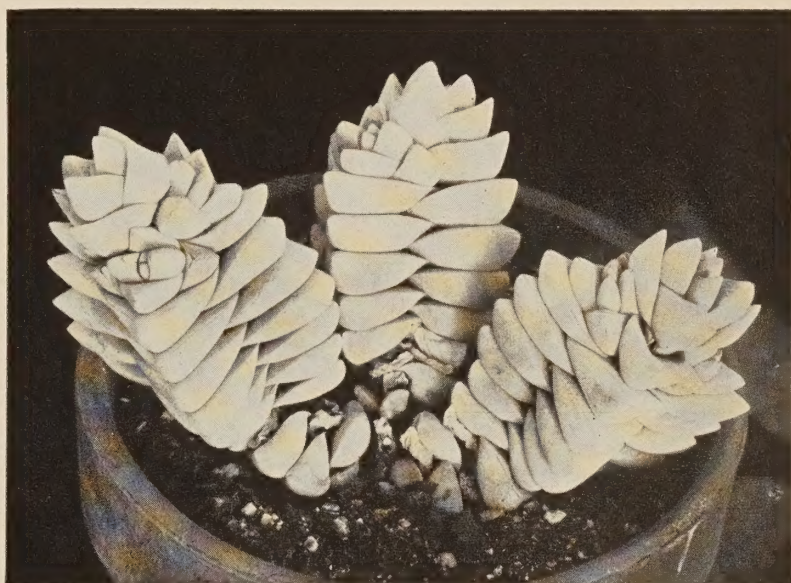
From Mexico come the lovely Echeverias, Pachyphytums and Sedums. South America has Puyas, Dyckias and a few Echeverias. South Africa and Madagascar have hundreds of Mesembrianthemums or Ice Plants in an infinite variety of forms. Stapelias and their kind (Milkweed), Euphorbias in hundreds from small cactus-like plants to huge trees. Crassulas in great variety from tiny stone-like plants to brilliantly flowered shrubs. Lilies are represented by several hundred Haworthias, a collector's joy, and scores of Aloes with their flaming torches marching over veld and kopje.

THE CULTURE OF SUCCULENTS

Succulents are mostly quite at home in the window garden being the most amenable of plants. They like a quite sandy or porous soil. Soils containing much clay are sticky and cold. Porous soils do not stay wet and quickly absorb warmth being much more to the liking of our desert succulents who do not like wet feet. A suitable compost may be made up of 1 part easily crumbled loam, 2 parts fairly coarse clean sand and 1 part peatmoss or leafmold. Very rich soils are inclined to make succulents grow too fast, wherein they tend to lose their interesting forms and colors besides becoming prime subjects for bugs.

They like fresh air as do all plants. In winter it is difficult to give ventilation but on bright, mild days one can do so. Many beginners are afraid to admit fresh air to their plants. Desert plants, like people, are a lot tougher than you think. They need the air to keep them hardened and to assist in transpiration.

In watering be temperate particularly just after they have been replanted. It takes a month or more for them to grow new roots. A good sensible rule is to water only as the soil becomes fairly or really dry. Water rather lightly, less in wet weather more in dry weather. Desert plants don't wilt like ordinary plants for they rely on the water stored in their succulent leaves or stems. This storage of water is why they are succulents and one should always remember that the plant has this stored water to tide it over the months of dry weather they experience in their desert homes. They like plenty of light and do well in full sunshine though they will appreciate a little shade in the middle of a summer day. The more shade they have the less water they will need.



CRASSULA CORNUTA

This pretty collectors item is native to South Africa. The plants are generally single stemmed but with age form clusters. As you see they are white. They are slow growing plants and should be kept in a very light position to retain their compact form. Too much water causes them to elongate. Each..... **80c**

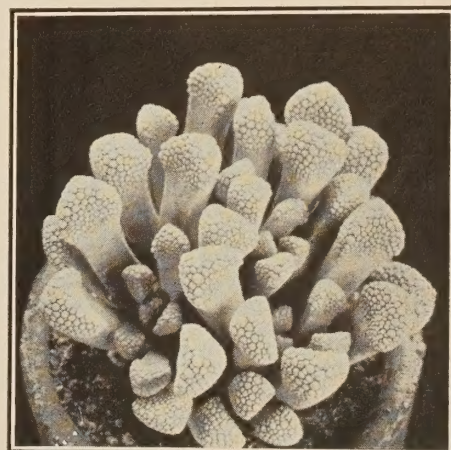
ECHEVERIA PULVOLIVER

This charming variety is a hybrid between Echeveria pulvinata the Chenille Plant and E. harmsii a plant we used to call Oliveranthus elegans. The velvety leaves turn a brilliant wine red in the sun particularly in fall and winter, brighter than either parent. The flowers are orange yellow produced in the spring. It will form a nice branched plant. **40c**

WHITE JEWEL PLANT

The Titanopsis are small mimicry succulents found in South Africa. They flower in fall and winter, with us even during freezing weather. They should have their rest period in summer by keeping almost dry. Titanopsis schwantesii has white leaves. Flowering size..... **45c**

Titanopsis setifera. A vigorous species with pebbled green leaves and pale apricot blossoms. Each **50c**



WHITE JEWEL PLANT

An interesting mimicry plant. Titanopsis schwantesii comes from South Africa..... **45c**



ECHEVERIA PULVOLIVER

See description above, right.



MEXICAN GEM

Handsome *Echeveria elegans* has spoon shaped leaves of powdery white. Beginning as a single head, it quickly forms clusters, each head crowned in spring with dusky rose blossoms. Easy to grow, it is brightest when given plenty of light and ventilation. Each..... **40c**



CHRIST THORN

One of the easiest succulents to grow, *Euphorbia splendens*, or Crown of Thorns, is one of the most rewarding. Easily trained to a trellis or handled as a small bush (plant 3 to a pot for balance), it produces bright red flowers from February until November. Give a light porous soil, such as equal parts Jungle Mix and loam, and moderate waterings. Given a little Cactus Food in summer it will respond with a succession of flowers. Sunny or semi-shady position. Potted plants 75c, 50c and..... **40c**



CHENILLE PLANT

Each leaf and stem clothed with soft velvety hairs, with every leaf margined in dark red. Colorful the year around, it is brightest during fall and winter months. Flowering in midwinter with large waxy bells of rich crimson, *Echeveria pulvinata* is one of our prettiest succulents. Sandy soil with leafmold, watering when dry. Likes a cool, light airy situation. Each..... **35c**



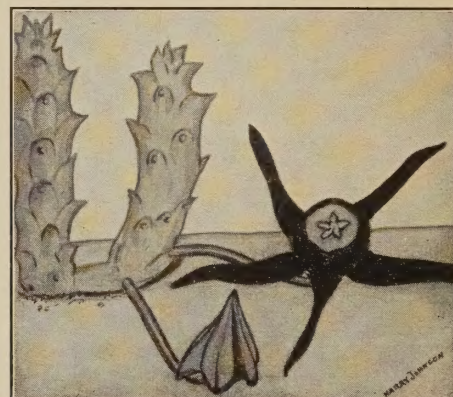
EUPHORBIA OBESA

A curious cactus-like South African succulent with globose body related to Poinsettia. Even more intriguing is the segregation of male and female flowers on separate plants. Most happy in sandy loam with leafmold, gravel and plenty of sunlight. A pair is needed for seeds. Pairs \$2.50. Each..... **75c**



STARFISH FLOWER

The most popular of the 'Starfish Flowers' or Stapelias, *Stapelia variegata* is one of the easiest to grow and flowers easily. Flowers mottled with brown and yellow. Like all the Starfish Flowers, a light open soil mixture watering only when dry is best. Each..... **35c**



DUVALIA RECLINATA

Another member of the Starfish Flower group, this curious little chap blossoms when quite small, generally Fall and Spring, though there is hardly a day when there is not a blossom here. The flowers are almost black and lay flat on the ground. Sandy soil, moderate watering. Branched plants..... **50c**



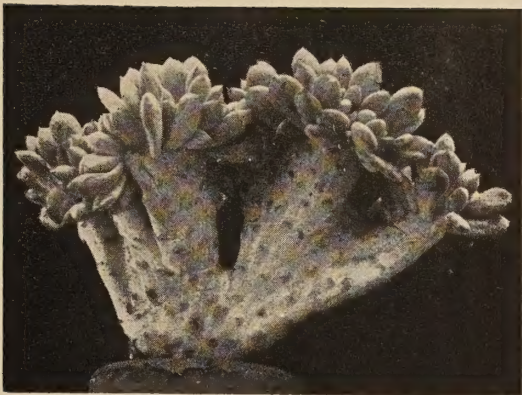
JEWEL PLANT

Titanopsis calcareum often becomes highly colored in winter. A lovely mimicry plant with jewel like leaves. Likes a sunny window. Winter blooming. Flowering size. **35c**



ECHEVERIA GILVA

Lovely green rosettes of cupped leaves tinged with red in fall and winter. In lighter more sterile soil the leaves tend to be more cup shaped. In more generous conditions the leaves tend to lay flatter. Does fine in shade or sun. Tall spikes of pinkish flowers in spring. Each..... **40c**



COCKSCOMB

One of the handsomest succulent crests with broad fan-shaped stems, waved and much crested, bearing blue-white leaves along their crests. *Pachyveria clavifolia cristata* makes a perfect pot plant quickly filling the pot to make a perfect specimen. Likes sandy soil with leafmold. Colors are brightest in full sun, but does fine in shade too. Fine crests 60c and..... **40c**



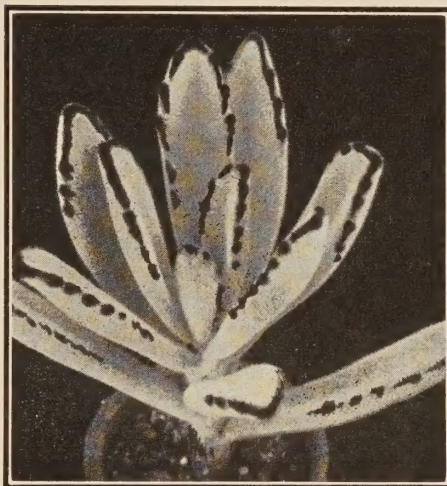
PEPEROMIA DOLABRIFORME

A branched plant 4-10" tall with odd scimitar, or sword-shaped leaves, the upper edge showing a pale green window similar to that found in Baby Toes. Happy in a well drained soil, such as equal parts leafmold or peat and washed sand, with moderate watering. Sun or part shade. The first introduction of this fine new succulent from Peru. Each..... **\$1.25**



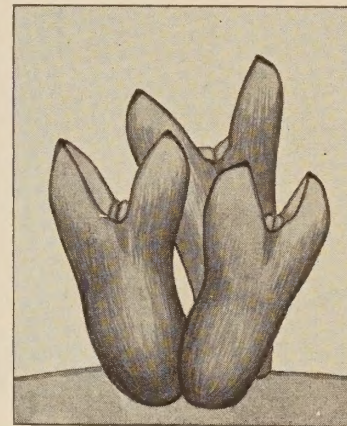
PAINTED LADY

Pretty rosettes of gray-green, each leaf powdered and tipped with red. Quickly forms clusters of babies and in summer flowers profusely with lovely orange bells as the picture shows. *Echeveria denerbergii* does well in a sandy soil with moderate watering and plenty of ventilation. The colors are brightest in a sandy soil. Each..... **35c**



PANDA PLANT

Long tapering leaves covered with close set hairs and tipped with chocolate markings. The leaves feel velvety to the touch. Soon branching from the base, *Kalanchoe tomentosa* makes a fine specimen when grown in washed sand and leafmold, watering when dry. Part shade or full sun. Each..... **35c**



CONOPHYTUM MEYERAE

Different from other Conophytums in having long fat 2-3" leaves joined almost to the tip and then spreading to form a V notch rather than short flat leaves as in Green Grapes. The yellow daisy flowers in fall and the new leaves first appear in the notch. The outer or older leaves gradually being absorbed. A choice collectors item. Each..... **\$1**

CACTUS & SUCCULENT SOCIETY

A handsome bimonthly journal printed on fine coated paper and chock full of interesting articles on culture, new plant introductions, and plant hunting trips with several regular features including a question and answer column. Published in California and sent to members all over the world. Membership in the Society and 1 year subscription to the Journal.... **\$3**

SILVER STARS

An exquisite miniature with clusters of fat leaves colored olive green and tipped with translucent windows. In late summer pair of leaves of *Ophthalmophyllum griseum* is crowned with a dainty white flower, with 5-20 flowers open on one plant. A fairland sight! Likes equal parts washed sand and leafmold, watering when dry. Clusters..... **75c**

JUNGLE MIX

A perfect planter mix that may be used as is for shade cacti such as *Epiphyllums* and *Rhipsalis*, or mixed half and half with washed sand for any of the succulents. We use great quantities of this in our own soil preparations.

120 cu. inches with orders..... **75c**
6 Quarts. Postage FREE..... **\$2.00**
West of Mississippi..... **\$1.75**



STAR CACTUS

Golden spines, body spotted white. Bright yellow blossoms. Choice..... **40c**



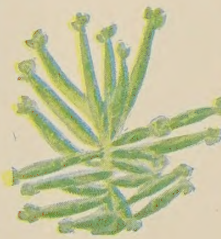
STONE FACE

Closely resembling stones, Lithops are beautifully marked. Rare. Small..... **35c**



OX TONGUE

Spotted leaves like huge tongues. Tall spikes of pink blossoms..... **35c**



AIR PLANT

Young plantlets borne at the leaf tips! Handsome orange blossoms..... **35c**



DUMPLING CACTUS

Blossoms when young. Dumping is fine for bowls..... **35c**

BOWL COLLECTION D1. FIVE LOVELY PLANTS FOR A DISH GARDEN.....

\$1.40



PYRAMID CRASSULA

A fascinating succulent, *Crassula pyramidalis* has its leaves tightly overlapping one another like shingles. The leaves are quite hard and form an almost square pyramid shape. With age they branch and in late summer they produce white "shaving brush" flowers at the tips. Sandy soil with leafmold and a light airy position. Large branched \$1.25. Nice potted.....

75c



INCH WORM

As each stem grows it turns upwards and then bends down to the ground where it catches root and then starts off again for all the world like an Inch Worm. *Kleinia pendula* prefers a sandy soil, moderate watering, and sun. Scarlet flowers. Each.....

40c

COCKLEBURS

Huernia pillansii has its stems clothed with soft bristles giving it its cocklebur appearance. Rust red Dragon flowers appear at the base of the plant in late summer. This fascinating plant is easily grown in equal parts washed sand and peat moss or leafmold, watering when dry and an occasional fertilizing during the summer months. Each.....

50c



MONANTHES MURALIS

An odd dwarf succulent forming tiny bushes. Bears a great many yellow blossoms with a wide disk on thread-like stems. Easily grown and flowers in spite of you! Each.....

35c



HEART VINE

Ceropegia woodii or Rosary Vine has leaves prettily marbled with silver. The stems hang down in long trailing curtains. Thrives in sun or shade. Likes moisture. Potted tubers 3 for \$1.00. Each.....

40c

UMBRELLA FLOWERS

Many of the *Ceropegias* have fascinating and attractive flowers with odd color combinations such as green, white and chocolate. These listed below are among the best.

<i>Ceropegia sandersonii</i>	75c
<i>C. haygarthii</i>	75c
<i>C. stapeliiformis</i>	75c
<i>C. debilis</i>	40c
<i>C. dichotoma</i> . Shrubby.....	\$1.00
<i>C. fusca</i> . Rare.....	\$1.25



PINK ST. ANDREWS CROSS

Attractive *Crassula* hybrids that please everyone. Each flower stalk bearing hundreds of pretty pink blossoms. Every plant flowers. 2 parts peat, 1 part sand, 1 part loam makes a fine compost. Moderate waterings. Part shade.....

35c



ARAB'S TURBAN

Tightly overlapping leaves forming a mound. If you look closely you will find that each leaf is edged with short white bristles. *Crassula hemisphaerica* never forms a stem. A loose soil with leafmold or peat moss, watering when dry. Part shade. Each.....

40c



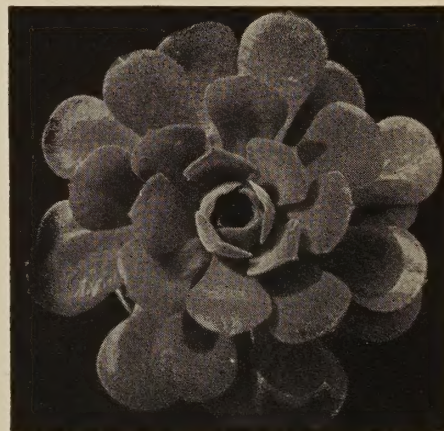
ANACAMPSEROS BUDIERIANA

Pure white branches formed by overlapping stipules. (The true leaves are under the white stipules). This plant and related species will always be choice collector's items because of their very slow growth. A 2" plant may be 5 to 10 years old. Fascinating, exquisite little plants for the connoisseur. Potted.....

\$1.00

Here are a few more choice *Anacampseros* species for your collection.

<i>Anacampseros albissima</i>	\$1.00
<i>A. baeseckii</i>	75c
<i>A. telephium</i>	40c



AEONIUM CANARIENSE

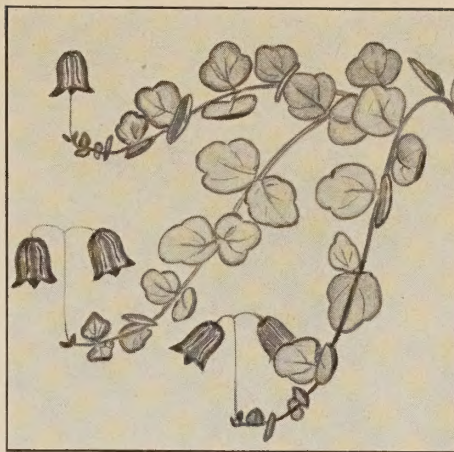
Huge green roses or rosettes up to 20" across when well grown. A lovely plant doing best in a cool moist atmosphere. Tall, pyramidal spikes bearing hundreds of yellow blossoms. Quick growing, of easiest culture. Sun or shade.....

40c



TRICOLORED JADE

An ever popular succulent, easy to grow and highly colorful with its variegated leaves of green and ivory often tinged pink. Happy in almost any soil mixture— heavy to light, and adaptable to full sun or shade, although brightest in full sun. *Crassula argentea* tricolor makes a handsome pot plant. Each..... **35c**



CORAL BELLS

Trailing over the ground or tumbling over the edge of a pot, *Kalanchoe uniflora* is happy in either situation. Planted in equal parts washed sand and peat it is sure to reward you with a host of dainty coral pink bells in early spring. In full sun the stems are mahogany red with the leaf edges tinged with red. Does best in partial shade. Likes an abundance of water. Each..... **40c**



GIBBAEUM DISPAR

Plump, greyish green leaves clothed with fine velvety hairs and, in autumn, petite daisy-like flowers of lilac-rose characterize this fine *Gibbaeum*. Forming clusters as it matures, it is interesting to note that the leaf pairs are slightly unequal. Like many of the South African "Mesembs," a light mixture of washed sand and peat or leafmold with only a little loam is preferable. Rest during the summer months and give slightly more water in spring and fall. Each..... **75c**



CRASSUAL DECEPTRIX

As though carved from alabaster, this beauty has its firm textured leaves so tightly packed as to hide the stem. Leaves white with surface dotted with tiny papillae. A light soil mixture, partial shade, and moderate watering with a winter rest is best. A choice collector's item. Each..... **50c**



CORAL BEADS

Each bead a jewel of bright red. Brightest when grown in full sun and poor soil. *Sedum stahlii* grows too fast in rich soil. 2 plants..... **35c**



PUSSY EARS

A creeper with hairy green leaves and brilliant small orange and purple flowers. *Cyanotus somaliensis* is easily grown. Potted..... **40c**



CHAIN PLANT

Growing easily in partial shade, *Tradescantia navicularis* has fine pink blossoms. Each..... **35c**

<i>Crassula tecta</i>	50c
<i>C. congesta</i>	50c
<i>C. montis draconis</i>	50c
<i>C. X imperialis</i>	35c
<i>C. corallina</i>	35c
<i>C. justii corderoyi</i>	35c
<i>C. trachysantha</i>	35c
<i>C. schmidtii</i>	35c
<i>C. deltoidea</i>	35c
<i>C. tomentosa</i>	50c
<i>C. albiflora</i>	35c
<i>C. ericoides</i>	35c
<i>C. cupressoides</i>	35c

ECHEVERIA

<i>Echeveria Doris Taylor</i>	50c
<i>E. recurvata</i>	35c
<i>E. scaphophylla</i>	40c
<i>E. spruceana</i>	35c
<i>E. multicaulis</i>	35c
<i>E. X set-oliver</i>	35c
<i>E. plumosa</i>	40c
<i>E. weingartii</i>	35c
<i>E. pallida</i> . A large "cabbage" variety.....	40c
<i>E. sp. nova</i> . Peru	50c
<i>E. alba</i>	40c

JOHNSON'S CACTUS FOOD

Cacti and most succulents will flower and grow more easily with small amounts of fertilizer as a regular feeding during their growing season. Full directions with each bag.

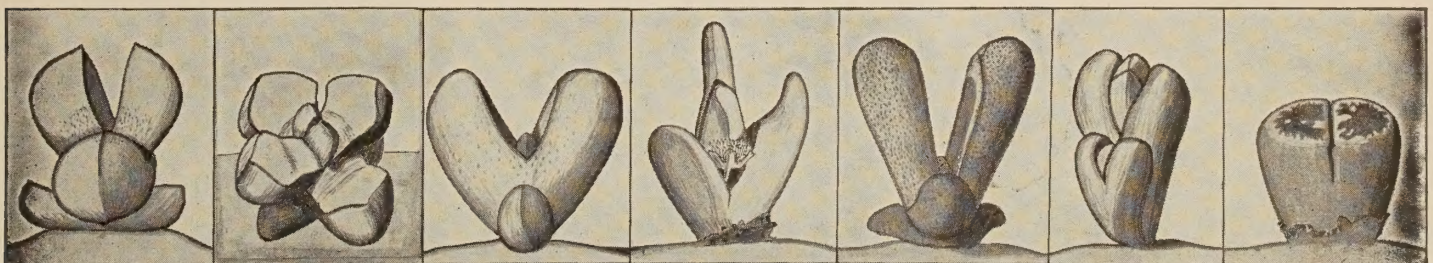
12 oz. Bag.....	50c
32 oz. Bag.....	\$1.00

**MIMICRY PLANTS
COLLECTION D2**



Unique are these unusual mimicry plants which so closely resemble the rocks among which they grow. They may all be planted together in a 5" pot or dish in quite sandy soil or sand.

6 distinctive kinds as Stone Face, Split Rock, Jewel Plant, etc..... **\$1.50**



**DINTERANTHUS
PUBERULUS**

Bright yellow flowers in fall. Leaves white tinted pink. A charming African Stone Plant..... **35c**

KAROO ROSE

The lovely *Lapidaria margaretae* with carved white leaves flushed with rose. Golden blossoms borne in September..... **35c**

**FLOWERING
STONES**

Dinteranthus inexpectatus closely resembles the white pebbles among which it grows. Golden flowers. Fine..... **35c**

GIBBAEUM

Curious mimicry plants with rosy lilac flowers and very unequal leaves. Form clusters of fat leaves. Each..... **40c**

**PLEIOSPILOS
HILMARI**

Fat copper-red leaves with jasper pebbles. Large golden blossoms borne from August to September. Nice colored plants.. **35c**

PEBBLE PLANT

The *Rimarias* are like smooth green chert pebbles. Cluster forming. Flowers white **35c**

STONE FACE

Lithops are the jewels among the succulents. Lovely patterned windows on top of brown, gray, rust red, white or green. Just like colored pebbles. Nice plants. Each..... **35c**



EYE LEAVES

The Ophthalmophyllums are curious African mimicry plants with their pale green or copper leaves joined in pairs forming upright cylinders tipped with a translucent convex eye or window. Only a notch remains at the tip to prove its origin of two leaves. The white pink or purple flowers appear in the notch during October. Sandy soil, light waterings fall and spring with plenty of ventilation, keep on dry side during summer months. Each.....

75c



WART PLANT

An all time favorite, Haworthia attenuata is deservedly popular because of its attractiveness and easy culture. The warts on the leaves are much whiter than shown. Beautiful rosettes, eventually forming clusters. Sandy loam with peat or leafmold which their roots can easily penetrate, partial shade, and moderate water. 50c, smaller.....

35c



MEXICAN FIRECRACKER

The charming Echeveria setosa likes cool weather and should be planted only in spring or fall. The leaves are covered with plush-like white hairs. Brilliant red and yellow blossoms in spring.....

40c



AFRICAN LIVING ROCK

A fine, easily grown Living Rock, Pleiospilos simulans; its gray-green leaves like shards of granite. Blooms freely in fall. Thrives in sandy soil with moderate watering and sun. Large 50c, smaller.....

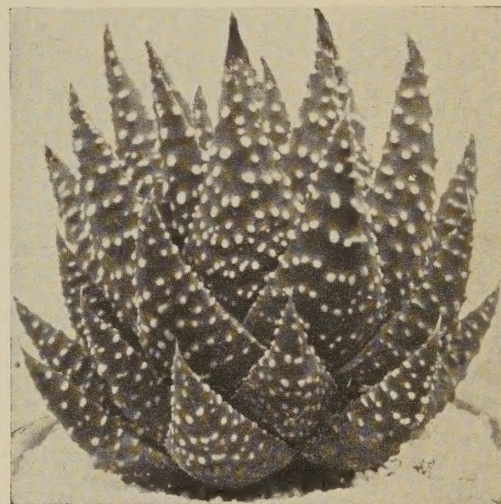
35c



SCARLET PAINT BRUSH

Rochea falcata is a most beautiful and easily flowered succulent. Large trusses of scarlet blossoms in late summer lasting a month. Generous treatment and a sunny or semi-sunny location. Spring plantings should flower. Each.....

35c



HAWORTHIA PAPILLOSA

Stiffly upright leaves covered with pearly white tubercles characterize this handsome Haworthia. One of the larger growing types, it makes an excellent house plant. It roots easily and does fine in a mixture of washed sand and peat. Partial shade, moderate watering. Large 75c, smaller.....

35c

BABY TOES

An odd "window" plant with daisy-like white blossoms in fall. The tip of each leaf of Fenestraria rhopalophylla is formed by a translucent window. Simple cultural instructions enclosed with each plant. Real curiosities and a source of unending interest. Full sun. Potted blooming size. Each.....

40c

PURPLE SYNADENIUM

A fine new novelty with stem and leaves a rich wine purple! Like a miniature tree with stem the thickness of a pencil and broad spatulate leaves. Easily grown.....

60c



TIGER JAWS

Faucarias form pretty greyish-green clusters. The edge of each leaf is lined with "teeth" or bristles and usually heavily dotted with white. In late summer bright yellow flowers appear. Porous soil, light watering. Clusters 75c. Small.....

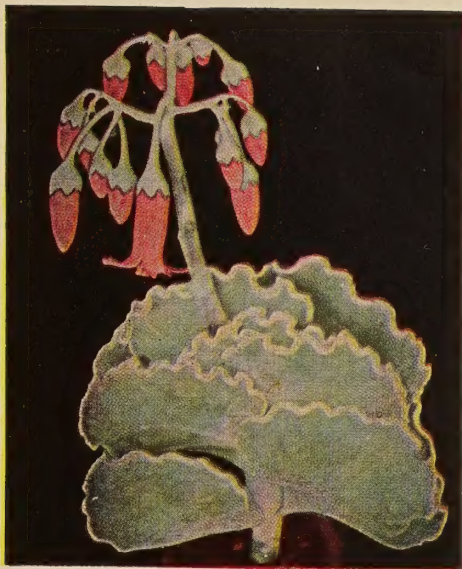
35c



LACE HAWORTHIA

Light green rosettes with each leaf edged with bristly white teeth giving it a lacy effect, and lined on the inside with longitudinal semi-transparent windows. Equal parts washed sand and peat or leafmold. moderate watering, partial shade. Keep dry during July and August.....

40c



SILVER CROWN

Lovely pink bells in summer and fan shaped leaves with crinkled margins describe *Cotyledon undulata*. The leaves are covered with white powder. Easily grown in sandy loam with moderate watering. Nice plants 50c, and **35c**



SPLIT ROCK

A most curious South African mimicry plant. Closely resembling the stones among which it grows, *Pleiosiplos nelli* sheds its older leaves as it grows a new pair each year. Sunny window, fresh air and sandy soil. Specimens 50c. Nice **35c**



PLOVER EGGS

Thick, cylindric leaves colored gray-green and heavily mottled with red-maroon. *Adromischus festus* is easily grown in sandy loam with moderate watering and a well ventilated situation. It will do fine in semi-shade, although its colors are brightest in full sun. It quickly forms clusters. Each **40c**



COTYLEDON AUSANA

Powdered leaves, each oval shaped leaf edged with dark red as though lipstick! A dwarf type *Cotyledon* with tall spikes of red flowers. Easily grown. Each **35c**



UMBRELLA FLOWER

A companion species to Heart Vine, *Ceropegia barkleyi* has narrower leaves. Each leaf is marked with silver tracing. Equally attractive are its light colored flowers about 3/4" long with just the tips of the petals joined to form an umbrella. Happiest in sandy loam with moderate watering and partial shade. Potted **40c**



STRIPED EUPHORBIA

Closely related to *E. obesa*, but in this case the plant is ribbed and has colored stripes. *Euphorbia valida* is a highly attractive and easily grown succulent. Sandy loam, water when dry, and partial shade or full sun. Nice plants **\$1.00**



STONE FACE

The Lithops are the prettiest and daintiest of the mimicry plants. They also are the most distinctive of the "window plants" for the pretty, bright patterns on the leaf tips serve as windows to diffuse the strong desert sunlight. Some are white, others red, green, or brown. 4 kinds for \$1.20. Each **35c**

JOHNSON'S CACTUS SOIL CONDITIONER

Designed to add the minerals ordinary garden soils often lack. Mixed with your potting soils, or stirred lightly into the soil it will often bring an ailing cactus back to health.

10 ounces 60c
24 ounces **\$1.00**

ODDS & ENDS COLLECTION

Collection D10

10 unlabelled cacti and succulents left over from packing tables or slightly marred plants at less than half price **\$1.50**

HOW TO ORDER

See page 18 for terms and full instructions on ordering. Please read carefully and note the amount to be sent for postage. \$5 orders sent postage free.

CURIOSITY COLLECTION D3.

The six plants below. A colorful selection to brighten up your kitchen or breakfast nook. Easily grown in pot or bowl. All six, \$2.10 value, only **\$1.60**

PEANUT CACTUS

Large, bright red flowers. Easily grown, fast forming many headed specimens. Each **35c**

PINCUSHION

Flowering when small, it grows quickly in sun or part shade. Each **35c**

BIRD'S NEST

Yellow flowers. Long slim nipples with curling yellow spines. Each **35c**

RED DRAGON FLOWER

Red and black flowers. Cluster forming **35c**

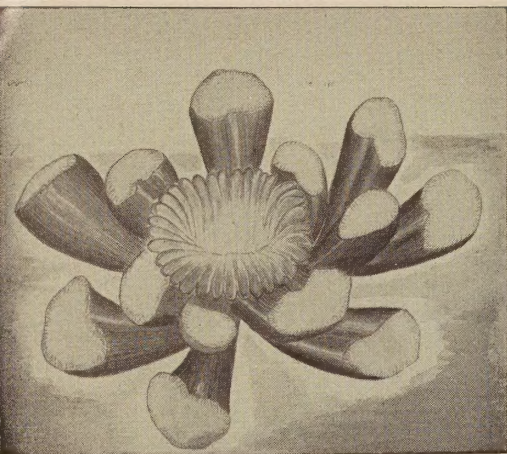
CHRISTMAS CHEER

Grows anywhere. Colors best in dry poor soil. Each **35c**

FLOWERING PINCUSHION

The Mamillarias are very satisfactory for the beginner. Easily grown, flowering in spring with handsome carmine flowers. Nice plants **35c**





FRITHIA PULCHRA

An extremely rare "window plant" with brilliant wine-purple blossoms. This attractive succulent has short, round, flat-topped leaves the tips formed by translucent pale green windows. In habit like the Baby Toes but of simpler culture. Porous sandy soil, bright airy position. **75c**
moderate watering. Potted



GIANT JEWEL PLANT

Nananthus malherbii is related to the Jewel Plant but much larger. This plant may reach 3 inches across. The leaves are studded with white bosses. Clusters, the leaves light brown often tinged purple. Easily grown. Keep on **35c**
dry side. Each 50c and



BURRO TAIL

Sedum morganianum makes a handsome trailing plant the stems with age reaching 3 feet in length. To make a full basket use 3 plants which will branch and fill in evenly. A rich porous soil and a bright airy situation. Generous watering. **40c**
3 for \$1. Each



NECKLACE VINE

Crassula perforata is an old favorite with joined leaves that look like buttons strung on a string. **35c**
Sun or shade. 2 plants



TRICOLOR WAX VINE

A handsomely variegated form of *Hoya carnosa*. The leaves brightly margined with yellow, often tinged with pink, a highly decorative combination. Popular dish garden plants, they grow well in shady situations. A sandy loam, moisture and some **80c**
shade. Each



WAX VINE

Hoya carnosa bears lovely, wax-like soft pink blossoms and shining, dark green leaves. Likes leafmold, moisture and partial shade. Nice **60c**
specimens



GREEN GRAPES

There are a great many of these South African plants. *Conophytum multipunctatum* grows into compact clusters of small heads. They prefer a sandy soil, not much water and a partially sunny position. Nice clusters. **40c**

STARFISH FLOWERS

The *Stapelias* come in many shapes and colors. Many are very large, others spotted, smooth or hairy

<i>Stapelia angulata</i> . Yellow and maroon.....	40c
<i>S. bella</i> . Flesh pink	40c
<i>S. comparabilis</i> . Maroon	50c
<i>S. desmetiana</i> . Purplish, large	75c
<i>S. dumneri</i> . Hairy. Yellow	50c
<i>S. gettlefii</i> . Handsome, barred	75c
<i>S. gigantea</i> . 12" blossoms	50c
<i>S. glanduliflora</i> . Snowflakes	50c

RATTLESNAKE CRASSULA

The rare *Crassula teres* is seldom seen except in choice collections. It branches freely from the base, each stem eventually terminating in a cluster of fragrant, white blossoms. Grows slowly liking a light porous soil, semi-sun, moderate watering. Not **35c**
hard to grow. Nice, beginning to cluster.....



GREEN JADE

Echeveria agavoides makes a fine specimen. The thick leaves are pale green, stiff as though carved from jade. The flower spikes in late spring have orange bells. Grows to 4" across. **35c**
Each.....

ALOE

A very large genus of spectacular succulents principally from S. Africa. Some are tall trees. All make fine pot plants.

<i>Aloe africana</i> . Spiny. Fine	40c
<i>A. sladeniana</i> . Variegated. Rare	\$1
<i>A. bainesii</i> . Giant tree	\$2
<i>A. comosa</i> . Blue leaves	50c
<i>A. dinteri</i> . Rare. Spotted leaves	50c
<i>A. striata</i> . Red flowers	35c
<i>A. longistyla</i> . Large salmon flowers	35c
<i>A. nobilis</i> . Red flowered	35c

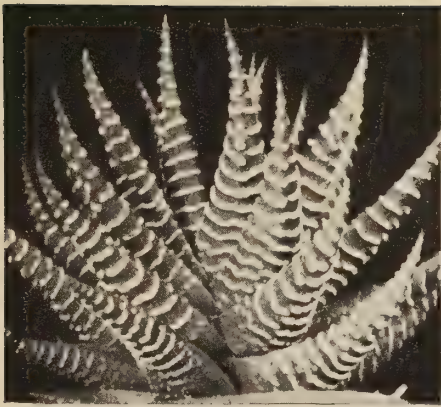
LITHOPS or STONE FACES

<i>Lithops leslei</i>	35c
<i>L. olivacea</i>	35c
<i>L. marthae</i>	35c
<i>L. opalina</i>	35c
<i>L. pseudotruncatella</i>	35c
<i>L. salicola</i>	35c
<i>L. bella</i>	35c
<i>L. framesii</i>	35c
<i>L. bromfieldii</i>	35c
<i>L. turbiniformis</i>	35c



PEARL OX TONGUE

Gasteria verrucosa is a scarce species and one of the prettiest. It is a long lived plant each leaf closely set with pearly white papillae. A collector's item. Easily grown in a light **40c**
window. Each



ZEBRA HAWORTHIA

The ever-popular *Haworthia fasciata* is a charming plant with pearly white, raised lines banding the pointed, dark green leaves. All of the Haworthias like a sandy soil with peat or leafmold, some shade. Don't keep them too dry. Each **40c**

HAWORTHIA

<i>Haworthia magnifica</i> . Handsome.....	\$1
<i>H. limifolia</i> . "Washboard".....	\$1
<i>H. turgida</i>	35c
<i>H. blackburniana</i>	75c
<i>H. emilyae</i>	75c
<i>H. marasai</i>	\$1
<i>H. batesiana</i>	50c
<i>H. ramosa</i>	75c



AGAVE ATTENUATA

A fine Century Plant with soft, silvery green leaves and no thorns. Makes a splendid specimen with smooth, grey trunk to 4 feet. May be kept dwarf. A fine porch or lobby plant **\$1**

WAX VINES

There are many Hoyas, these listed are very uncommon and bear beautiful flowers. Same treatment as African Violets.

<i>Hoya bella</i> . Exquisite pink blossoms. Small compact plant. Fine.....	\$1
<i>H. paxtonii</i> . Flowers purplish pink. Similar to <i>H. bella</i>	\$1
<i>H. shephardii</i> . Pink.....	\$1
<i>H. imperialis</i> . Tall vine, pink.....	\$1



ORANGE BABY TOES

The curious *Fenestraria aurantiaca* comes from the west coast of Africa. In the wilds only the tips of the leaves peep above the surface, the clear window in the tips allowing the light to penetrate. Simple growing instructions with each plant. Potted specimens each **50c**

ADROMISCHUS (Plover Eggs)

<i>Adromischus cristatus</i>	40c
<i>A. poellnitzianus</i>	50c
<i>A. alstonii</i>	75c
<i>A. trigonus</i> . Lovely.....	75c
<i>A. fusiforme</i>	50c
<i>A. rhombifolius</i>	75c
<i>A. maculatus</i> . Calico Hearts.....	50c



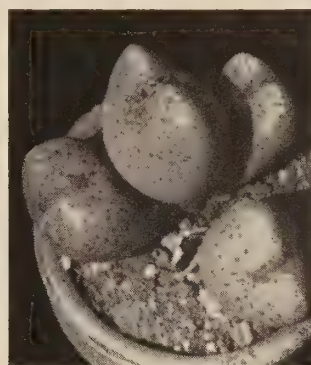
PEARL ALOE

Each leaf is gemmed with tiny seed pearls. *Aloe x bequini* enjoys a rich porous soil and partial shade, moderate waterings throughout the year. A mixture of equal parts washed sand (builder's sand) and peat moss, or Johnson's Jungle Mix, is fine. Try a very light fertilizer application once a month during summer for perfect plants. An Aloe by *Gasteria* hybrid. Each..... **40c**



DOLLAR LEAF

A bold plant with large green leaves edged red. *Cotyledon macrophylla* bears waxy red bells in late autumn. Sun or part shade. Nice plants..... **50c**



CONOPHYTUM ERNIANUM

Clusters of succulent paired leaves, pale green speckled darker. In the fall a bud emerges from the notch in each pair expanding to a frilly pink flower. An African mimicry plant **35c**



PACHYVERIA GLAUCA

Thick, rigid leaves of bright smoky-blue. Forms beautiful clusters in sun or partial shade sending up tall flower spikes in late summer. Easy culture, light or heavy soil, moderate waterings. Each **35c**



PINK STARS

Conophytum braunsii has lovely pink blossoms in October. The daisy like blossoms are stemless lying flat against the plant and often covering it! Three parts washed sand to one part leafmold makes a good mix for this group. Small flowering 50c, nice flowering clusters **75c**



HAWORTHIA TRUNCATA

A rare, curious and uncommon collector's item. The sharply truncate leaf tips show translucent windows with white markings. Porous soil, light waterings and partial shade. Flowering size..... **\$2.50**

GASTERIA ARMSTRONGII

One of the rarest of Gasterias (Ox Tongue). The broad, rough, hard textured leaves are dark olive green and come in opposite pairs like all Gasterias, but in this species they are strongly reflexed making the plant lie flat on the surface. A choice collector's item. Mature plants **\$2.00**



RAINBOW BUSH

Rainbow hued in yellow, cream, pink and green each dainty leaf hugging the fat, mahogany red, jointed stem. *Portulacaria afra* var. *tricolor* is a charming plant that will stand out among the plainer greens. Light loam soil, generous treatment, don't keep too dry. Sun or shade. Potted **35c**

★ ORCHID CACTI

ORCHID CACTI or Epiphyllums are amongst the easiest grown of all cacti while their blossoms surpass even Orchids in their brilliant coloring and size. The huge blossoms like giant Water Lilies are up to 10 inches in diameter. The glowing satiny petals display a rainbow iridescence. Vivid and clear are the shining reds in all shades from scarlet to crimson, bright are the pinks, salmon, orange red, snowy white, white and gold and more beautiful if possible are the bicolors with scarlet outer petals and effulgent violet throats.

The plants are fine for the window garden and flower well in 4 to 6 inch pot sizes. They are complex hybrids of several genera of jungle cacti as the wild species of all Epiphyllums bear white, mostly nocturnal flowers. The hybridist has crossed Epiphyllum crenatum from Guatemala with Heliocereus speciosus to get the bright reds and the violet throats. With Hylocereus to increase flower size and for the golden outer petals, with Nopalxochia for pinks and dwarfness. These are the basic crosses though to them have been added the blood of other Heliocereus and Nopalxochia ackermannii which extended the red shades and certain flower types. Whether Selenicereus entered is problematical as they do not cross freely and there is no evidence in flower structure to substantiate the claim. The belief that Epiphyllum cooperi or E. pferdorffii are Selenicereus hybrids is probably a misconception as they are found wild in abundance from the Isthmus of Tehuantepec to Guatemala. Other genera are now being brought into the complex to further extend flower shape, growth habits and length of blooming period.

CULTURE

Their culture is reasonably simple. They grow well in a mixture of light loam, gritty sand and leafmold in about equal proportions. In such a mixture they should not be over watered but like to be kept damp. For those who are inclined to overwater, a very spongy mixture is preferable such as our Jungle Mix. Increasingly house plant enthusiasts are learning the value of these air-filled potting mixtures for roots grow rampantly and seldom rot when overwatered. After potting place where ventilation is good and in a light position very near a window but protect it from the direct noon sun. Water again when the pots are almost dry. Do not keep saturated all the time. The rhythm of wetness to partial dryness is necessary to their well being. Do not overpot, a 4 inch pot or even a 3 inch is about right for the first potting. In summer after frost put them outdoors under a tree or in partial shade if possible. They flower on last years stems from April to July.

JUBILEE ASSORTMENT

Collection D 4

7 named Orchid Cacti in a good range of colors and types including white, red, crimson, pink and bicolor. All are standard, vigorous growers. A rainbow in your window. Pot first in 3" or 4" pots until well established then shift to 5" or larger.

The set..... **\$5**



PROFESSOR EBERT

A very lovely tree blooming variety with flowers of bright violet carmine. A good sturdy plant with triangular, bright green stems, quite sure to flower. Attractive upright growth bearing its flowers boldly. Each..... **95c**



GLORIA

A magnificent Orchid Cactus with gorgeous flame colored flowers up to 9 inches across. Its season of bloom is one of the longest, flowers sometimes appearing as late as August. Very easy to succeed with. An outstanding variety and much recommended. Each..... **85c**

ORCHID CACTI

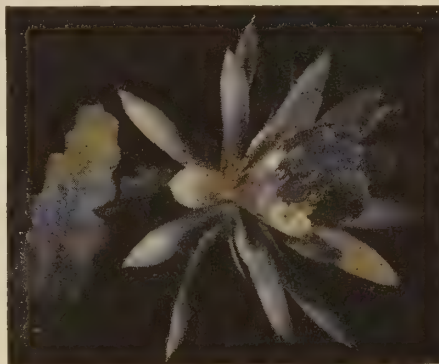
General list of the better known varieties approved through years of trial.

RED SHADES

- Flamingo.** Large flower brilliant orange-amber shading to violet in center. Each..... **85c**
- Dr. von Roeder.** Large waxy blossoms, orange buff within, deep bronze without..... **\$1**
- Bliss.** Pastel orange. Inner petals rounded outer slender, well spiralled..... **85c**
- Brown Bear.** Lovely cup-shaped blossoms, bronzy orange. Strong grower..... **\$1**
- Scintilla.** Brilliant handsome blossom. A fine recent introduction..... **\$2.50**
- Oberst Kunrich.** Inner petals deep violet, outer shading from maroon to copper..... **85c**
- Red Queen.** A lovely brilliant red blossom. Good vigorous plant..... **85c**

ANDRAE

A very choice new hybrid between the easily flowered Easter Cactus, Schlumbergera gaetneri, and the lovely Spring Beauty, Rhipsalidopsis rosea. The flowers are up to 3 inches across and as seen in the color photograph freely produced, in April. They like a spongy soil (Jungle Mix) as the parents are epiphytic. Partial shade, generous waterings in summer with feedings of weak liquid fertilizer. **\$1**



PADRE

Lovely warm pink blossoms. Flowers over a long period. A reliable bloomer and a good one to start with. Plant vigorous and strong rooted. Besides the regular flowering period it may bloom at odd times through the year. Each..... **85c**

Amber Queen. Large flower to 10" of brilliant orange red. Inner petals shading to yellow giving the flower an amber glow..... **85c**

Conway's Giant. Large crimson flower, inner petals overlaid with violet..... **85c**

Fiesta. Rich red blossom inner petals orange bordered with violet..... **85c**

Stern von Erlau. Bronze-orange with red outer petals. Strong grower..... **85c**

Viviana. Red purple blossoms opening widely. Good basket variety..... **85c**

Paula Knebel. Spreading petals. Outer crimson, inner lavender with orange central stripe. **85c**

Alta Scott. Lovely. Petals deep red margined vibrant purple, lighter edge..... **\$1**

Scarlet Giant. Large orange scarlet, throat violet-red. Good grower..... **85c**

Hans Rehm. 8" blossoms. Claret red petals bordered with deep violet..... **85c**

Valencia. Heavy blooming, late season variety. Orange-yellow with violet overlay..... **85c**

Sun Goddess. Large brilliant burnt orange with golden sheen. Violet eye..... **90c**



ORCHID CACTI continued

TRICOLOR VARIETIES

These are brightly colored in red, violet and lilac sometimes with orange striping.

Joseph de Laet. A very lovely variety with inner petals violet to lilac with darker center stripe, outer petals scarlet red.....\$1.25

Jorge Siepke. Outer perianth orchid-pink, inner petals lilac pink the stripes running toward the center.....\$1

Marseillaise. Fragrant. Crimson shading lavender with white edging. Back petals crimson. \$1

Anton Gunther. Fine flower in tones of blue violet. Inner petals with red-violet to lilac center stripe. Back petals red-violet.....\$1.25

PINK

Saturnalia. Large clear pink with cerise center.....85c

Agatha. A handsome favorite with warm pink blossoms. A good vigorous plant.....85c

Rosetta. Deep red pink. Splendid.....\$1

Melrose. Exquisite new pink.....\$1.50

Welcome. Fragrant flowers. Pale rose pink suffused with violet. Petals ruffled on margins.....90c

Pink Nymph. Lovely salmon-pink petals ruffled on the margins.....85c

Cynthia. Delicate clear pink with white throat. Fine basket plant.....\$1

Adonis. Large pink with lilac sheen, rosy lilac center. Good grower.....85c



EARLY FLOWERING XMAS CACTUS

Bright salmon-red flowers much handsomer than the old Xmas Cactus. Zygocactus bicolor flowers early in October or November and is exceedingly floriferous. Even small plants persist in blooming. The stems or "leaves" are shorter and broader than Xmas Cactus, with long teeth which gave the common name Crabs Claw. Plant vigorous thriving in our Jungle Mix or a very spongy soil. Small potted plants each.....\$1

RAINBOW ASSORTMENT COLLECTION D5

Red. Bright red.

White. Large white.

Pink. Free blooming.

3 nice labelled Orchid Cacti for only.....\$2.25



HANS REHM

Glistening claret-red 8" blossoms. Outer petals red, inner petals orange edged with purple. A large very lovely flower. Each.....\$1



HERMOSSISSIMUS

This lovely Orchid Cactus is still one of the brightest and best of all. It is a vivid example of the bicolor type with deep crimson outer petals the inner petals and throat a glowing electric violet each petal with a median stripe of orange. The branches are rather slender, the flower buds long, slim and pointed. A free bloomer of vigorous growth generally flowering in April. It should have a light open soil. Each.....\$1.25



CHRISTMAS CACTUS

Grandmother's favorite. Beautiful Fuchsia-like shower of dainty pink blossoms. Zygocactus truncatus blooms from Christmas on. The flowering time is variable. Use a porous soil with leafmold and sand. Our Jungle Mix is excellent if you are inclined to overwater. Keep damp in a bright window shaded from the noontday sun. Larger 6-7 inch plants. \$1.75c Smaller potted plants 50c and.....

JOHNSON'S JUNGLE MIX

A newer type of cactus compost for epiphytic cacti which prefer a very open porous soil. Plants develop a vigorous, extensive root system seldom seen in other composts. It may be stretched by the addition of clean sand and porous soil. It is excellent also for African Violets, Philodendrons and other shade plants. Full instruction for use and modification. Turn to page 18 for details and price of this and other supplies for your plants.

ORCHID CACTI continued WHITE

Moonrise. Lovely large white fragrant blossoms. Strong grower free bloomer.....85c

Easter Morn. Large fragrant white. Inner perianth cup-shaped, outer flaring yellow and gold. Strong grower deeply toothed stems.....\$1

Eden. Large fragrant flowers outer petals golden, inner pure white. Good bloomer.....90c

Oriole. Bright blossoms outer rich yellow shading to coppery gold, inner pure white.....85c

Poldi Svetnic. Star-like white blossom with numerous narrow petals opening flat.....\$1

Mt. Hood. Large open flower.....\$1



SNOWDROP CACTUS

An old favorite Rhipsalis houlletiana has gracefully arching branches each set with pretty white bells in spring. Likes a shady but light position much the same treatment as an African Violet. Each.....50c



HERMOSSUS

A large broad-petalled flower of brilliant red. The inner petals and throat iridescent violet. Quite vigorous in growth and free flowering. Each..... **90c**

PETER PAN

This is the same parentage as Andrae pictured in color on page 12. The flowers however are quite different being rather tubular and a brilliant violet-red in color. Likes cool treatment. Each..... **75c**

APOROPHYLLUM

Beautiful hybrids between Orchid Cacti and Aporocacti. The plants and flowers are distinct from either parent. The blossoms are of lovely soft pastel shades of pink salmon, etc., with large open perianth.

ODALISQUE. A hybrid between Rosetta and Aporocactus flagrifloris..... **\$1.25**

HALITO. A hybrid between Bambi and Aporocactus flagrifloris..... **\$1**

LAWRENCE. Valencia by Aporocactus flagrifloris. Soft salmon pink..... **\$1**

APOROHელიOCEREUS

Beautiful flowering, slender stemmed cacti intermediate between Heliocereus speciosus and Aporocactus flagrifloris. Enjoy a sunny or partially shady location.

HAZEL HYBRIDS. A fine group with brilliant flowers. Each..... **\$1.25**

CHIAPHYLLAPORA

These very interesting tri-generic hybrids combine the characteristics of Chiapasias with its long blooming period, Orchid Cacti and Aporocactus. There should be many interesting and beautiful flowers among them. Stem round, slender with harmless bristles. Plants of creeping or pendent habit. Do well in partial sun or shade. Each..... **\$1.25**



MISTLETOE CACTUS

A pretty, compactly branched plant. Rhipsalis mesembrianthemoides has small white blossoms followed by mistletoe-like white berries. The short joints have slightly wooly areoles. Likes shade and should be kept moist. Use a very open, porous compost. Native to Rio de Janeiro, Brazil. Each..... **50c**



RHIPHALIS CRISPATA

A vigorous growing plant with ovate branches crisped at margin and copper tinged when young. Later they are pale apple-green. Native to southern Brazil growing in the mountains as an epiphyte in the trees. Give it an open spongy compost and keep moist in partial shade. **50c**



RICE CACTUS

Slender arching stems the tip branchlets borne in whorls of three or more the chubby ultimate branches slightly wooly. The pretty white blossoms appearing in the spring followed by white, mistletoe-like berries. Keep moist in partial shade. Each..... **50c**



CHIAPASIA NELSONII

The bright violet pink blossoms are about 2 1/2" long borne abundantly in the spring. This pretty epiphytic Mexican cactus has long terete stems from which spring the thin flattened side branches. Prefers a cool partially shady situation rather than a hot dry one. Each..... **85c**



PSEUDORHIPHALIS MACRANTHA

This charming Mexican cactus has arching, flat stems which bear at the areoles. 1 1/2 inch wide, very fragrant flowers. The outer petals are rich golden yellow the inner petals cream white. It is an epiphyte and as such likes a little shade and moisture. Each..... **\$1.00**

Werklapora

Hybrids between the lovely Werckleocereus glaber a free flowering Night Blooming Cereus of climbing habit and the well known old favorite Rattail Cactus, Aporocactus flagelliformis. The hybrids have slender, round, ridged stems bearing short, harmless bristles and can be trained upright or as trailing plants. The flowers probably will be pink and intermediate in shape and size.

Part sun, Each..... **\$1.25**



VALENCIA

Orange yellow Orchid Cactus darkening to red with violet throat. Outer petals deep orange red. Vigorous, heavy flowering, late season variety..... **90c**

CHRISTMAS CACTI ZYGOCACTUS

Christmas Cacti or Crabs Claw are well known old favorites but few people realize their several color variations and types of stems. All require the same care similar to Orchid Cacti. Light porous soil. Jungle Mix is recommended.

JOHNSON'S ELECTRA. A vigorous new variety with very large flowers of bright red pink. Flowering period in November and again in March. Each..... **\$1.50**

JOHNSON'S VIVID. This lovely variety is quite distinct with small, much toothed leaves up to 8 or more at a node. Flowers large, bright scarlet. November. Small..... **\$1.75**

WHITE XMAS CACTUS. Delicatus. Large white flowers faintly flushed with palest pink. A beautiful and very distinct species. Flowers very freely in November. Small plants..... **\$2.50**

SALMONEUS. Thanksgiving Cactus. A compact growing variety with bright salmon-red or scarlet flowers. "Leaves" often coppery-red but not toothed. Flowers in November and December. Small plants..... **\$1.25**

AMELIA MANDA. Large, pale crimson blossoms, petals pink at base. "Leaves" short, wide, growth compact. Plant vigorous. Flowering in January. Small plants..... **\$1.25**

PARNA. Very long "leaves" open, graceful growth. Flowers medium, pale crimson or deep pink, paler pink throat. Small..... **\$1.00**

W. A. MANDA. "Leaves" very wide, large, growth open. Plant vigorous. Flowers opening in February pale crimson. Small..... **\$1.50**

BAHAI. Very compact with many short, notched "leaves." Flowers medium, pale crimson, white throat, free flowering, December and January. Small..... **\$1.00**

SCHLUMBERGERA EASTER CACTUS

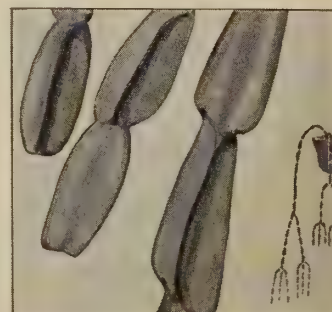
Bright scarlet blossoms at Easter time. Similar in habit to Xmas Cactus but flowers are wheel-shaped without a tube. Needs very open soil and less water than Xmas Cactus. Small potted plants..... **\$1**

RHIPHALIDOPSIS Spring Beauty

A small cactus in appearance like a dwarf Xmas Cactus bearing bright pink widely expanded blossoms in the spring. Culture as in Xmas Cactus. Each..... **75c**

EPIPHYLLANTHUS OBOVATUS

Handsome Xmas Cactus-like deep pink blossoms. Culture as for Xmas Cactus. Each..... **\$1**



LINK CACTUS

An odd and pretty cactus for the shade garden. Rhipsalis paradoxa is nice for the upper shelves in Window Gardens where the curious pendent branches can hang down. Shade and moisture..... **75c**

☆ OPUNTIA

THESE most interesting cacti are found throughout North and South America from Canada to Patagonia. There are over 300 kinds in two main groups: those with flat pads and those with round or cane-like stems. Some are very dwarf, low plants, others tall trees. The most interesting ones for the collector whose space is limited are the dwarf types of which there are many. Some come from our northern states and Canada where they hide beneath the snow in winter and are hardy in well-drained locations in the garden. The South American and Mexican kinds are generally not completely hardy although many come from high Andean regions. I actually collected them growing at 15,000 feet in southern Peru. The subdivision, Tephrocactus, has many interesting and handsome kinds. These are unique with fat, ovoid jointed stems often with papery ribands for spines or even silky white or golden hair. They are found mostly in the Andes or in Argentina. The Opuntias are an ancient group probably going back to the dawn of flowering plants in the Upper Cretaceous or 40 million years ago.



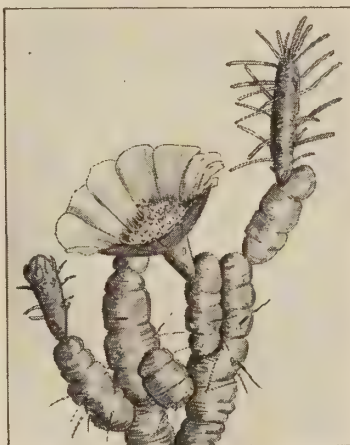
CRESTED OPUNTIA

Crested or cristate forms of cacti are among the most interesting and unique of all with their odd convoluted stems. Opuntia serotina cristata never loses its cockscomb growth. Nice crests 50c and.....

75c

CACTUS FOOD

See Pages 17 and 18 for Cactus Supplies of Various Kinds



OPUNTIA VERSCHAFFELTII

A pretty species found near La Paz, Bolivia. The young stems bear fleshy leaves which soon fall away. Flowers dark red. Each.....

35c

Tephrocactus pentlandii. Round joints with few spines. Flowers yellow. Easily grown standing considerable frost. Bolivia.....

50c

Opuntia polyacantha. A hardy, dwarf species with lemon yellow blossoms. Canada and northern U.S. 40c

Opuntia aciculata. One of the prettiest of opuntias with obovate pads and yellow flowers. Areoles very large and thickly set with chestnut brown glochids.

\$1

Opuntia santa-rita. Dollar Cactus. Round pads bluish to purple in color with few spines. Handsome yellow flowers.

50c

Opuntia ursina. Grizzly Bear. Long coarse white hair. A scarce and pretty plant.

50c

Opuntia leucotricha. Long, white flexible spines, chartreuse flowers. Grows into tall tree-like specimens. 50c

Opuntia brasiliensis. Tall tree species, old plants with round trunk and 'leafy' crown. Flowers pale yellow.

50c



ANGEL WINGS

A dainty little plant the areoles filled with snowy white cotton. Completely spineless the glochids are harmless. It branches freely and remains dwarf the pure white cushions showing brightly against the dark green pads. Light or sunny position.

35c

TACINGA

A curious Brazilian opuntiad with slender, round stems. Does not look like other Opuntias. Collector's item.....

\$1

QUIABENTIA

A round stemmed, tree-like opuntiad with thick leaves. Very spiny. Flowers are red. Rare.....

75c

MAIHUENIA

A rare, dwarf opuntiad from southern Chile and Patagonia. Bears persistent small, fat leaves. Each

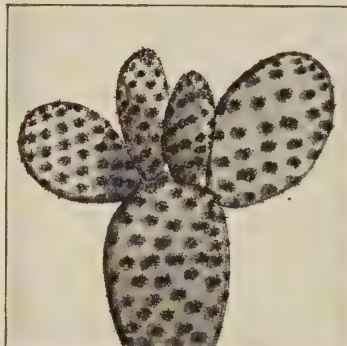
\$1



ORANGE TUNA

Brilliant orange blossoms borne on almost spineless pads. A free grower the plant with age forming a trunk. Opuntia elata is a native of Paraguay. Likes a sunny location and moderate watering. Each.....

40c



CINNAMON CACTUS

A very pretty variety of the Bunny Ear group. Opuntia rupestris may be dwarfed by keeping in poor, sandy soil in a sunny place. Do not handle as the glochids easily come off. Branched.....

35c



DOMINOES

Opuntia erectoclada is a dwarf Argentinian species with trapeziform pads and brown spines. Likes a fertile sandy loam and a light or sunny position. Clusters.....

40c



LEMON VINE

Though a true cactus, few would at first suspect it. Pereskia pereskia has large leaves and waxy, lemon scented creamy blossoms. In shipping 40c it may drop its leaves. Potted.....

40c

OLD MAN OPUNTIA

Opuntia vestita has white wooly hair the round stems branching from the base to form clusters. Comes from the high Andean plateau of Bolivia. Handsome red blossoms. Sandy soil, keep on dry side.....

50c



BLACK OPUNTIA

A most attractive plant the pads at times almost black, dotted with the small white areoles. No spines. Consolida rubescens likes a good loam soil. Found in Puerto Rico. Each.....

35c



THIMBLE TUNA

A dwarf from the Andes, Tephrocactus microphaericus, forms small, low clusters of fat round stems. Flowers bright ruby red. Easily grown.....

35c

NOPALEA

The nopal are spiny Opuntias with long red flowers. N. auberi has long oval pads. Quick grower. Each.....

50c



BUNNY EARS

An old favorite the areoles filled with bright golden glochids. Do not handle! The dwarf plants are quite attractive. To keep bright give full sun. Grows easily.....

35c

Angora Bunny Ears. White glochids. The glochids are harmless.....

40c



☆ PINCUSHION CACTI or MAMILLARIAS



CORAL CACTUS

The Coral Cactus (*Mamillaria heyderi*) is one of the prettiest with its circle of coral-red berries and charming cream flowers. The berries burst forth ripe and scarlet taking only a few days to appear. Mature fruiting 2" to 3" specimens each..... **50c**



GOLDEN STARS

The lovely popular *Mamillaria elongata* should be in every collection. Spines bright yellow. Very easily grown and branches freely the first year soon making a nice specimen. Flowers yellow, fruit red. Sun or shade. Large branched specimens \$1. Small single 35c. Clusters..... **50c**

Mamillaria elongata schmollii. A miniature variety for tiny pots. Charming. Single **35c**. Clusters..... **50c**

Mamillaria viperina. Much longer slender branches. A rare species seldom seen. Pretty..... **50c**

Cactus Supplies and Books

On pages 17, 18 and 20 we offer various items helpful in the growing of your plants particularly for those fanciers living in cities where natural supplies are often difficult to come by. To our composts must be added soil (loam) and sand which may be procured locally. Pet stores carry bird gravel and garden or roadside bank will supply loam. Pots 2", 3", 4" may be purchased from florists.

AUTUMN

A handsome selection of *Mamillaria elongata rufrocrea*. Richly colored reddish spines make this a real favorite. Grows easily, branches quickly forming attractive specimens. All the *Mamillarias* of this group are sterling subjects for the beginner. Sun or shade, moderate waterings. Large clusters \$1. Singles 35c. Clusters..... **50c**



VARIOUS MAMILLARIAS

Mamillaria albescentis. Similar to Birds Nest but with white or pale yellow spines..... **50c**

M. angularis. Handsome species producing much white wool at flowering areoles. 3 years flowering **75c**. 4 year..... **\$1.25**

M. bravoae. Charming winter flowering species with white wool. 4 year old flowering. **\$1**



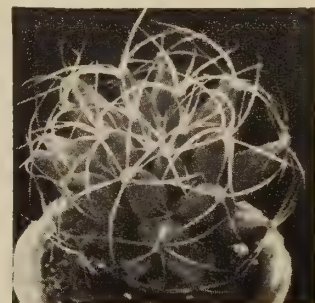
ROSE PINCHUSION

The bright and charming *Mamillaria zeilmanniana* is one of my prime favorites. It is a very heavy bloomer and remains in flower several weeks. Even tiny plants always flower. Sun or partial shade. Large 2 years **75c**. Nice flowering size..... **50c**



MAMILLARIA CELSIANA

An attractive species with yellow spines each nipple with a wooly axil. Flowers bright red-pink. With age forms most beautiful large clusters. An uncommon plant. Nice 2 year old..... **50c**



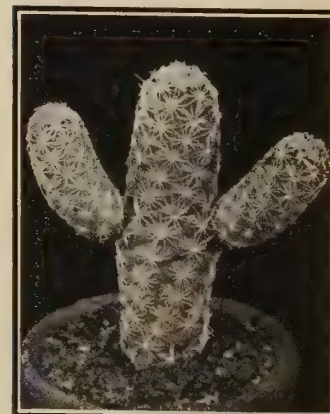
BIRDS NEST

Feathery, curling yellow spines that are papery soft and harmless. Clusters rapidly. *Mamillaria campotricha* grows well in sun or shade. Small 35c. Large \$1. Nice..... **50c**



JOSEPH'S COAT

Opuntia vulgaris variegata is colored white, yellow, green and pink. Easily grown sun or part shade. Each..... **40c**

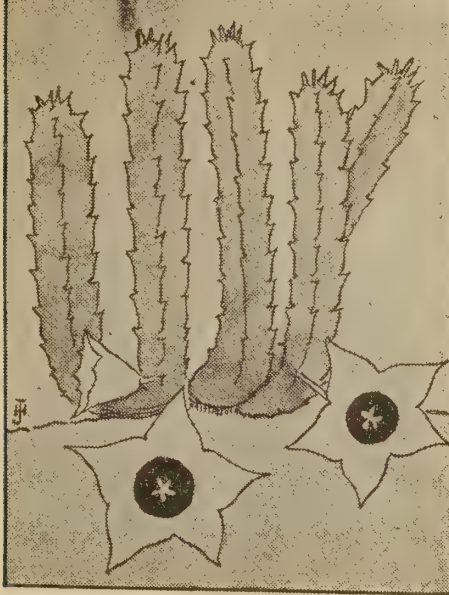


JELLY BEANS

A small variety of the Thimble Cactus. *Mamillaria fragilis minima* bears many branches each of which will make a new plant..... **35c**

TERMS

Please read our terms of sale carefully. Note the amount of postage to be sent on orders under \$5. Increasing overhead costs of business have brought the break-even point on orders to \$3.50. Parcel Post rates have increased. It now costs 51c to send a 2-pound package across the country, the normal weight of a few plants. Only the most exceptional, experienced workmen can label and recognize the hundreds of items we grow.



RED DRAGON FLOWER

The pretty *Huernia schneideriana* bears delicately beautiful flowers with velvet red petals and black center. Flowers all summer, moderate waterings, sun or semi-shade. Each.....**35c**

HAWORTHIAS MIXED

A mixture of various types of Haworthias including *Haworthia setata*, *H. subfasciata*, *H. margaritifera*, *H. pilifera*, etc. All grow splendidly in our Jungle Mix. Seeds germinate quickly. Keep quite moist at all times. Very interesting small plants. **50c**
Per packet.....

PARAMOUNT HYBRIDS MIXED

This seed has been carefully collected from 100 of my better Easter Lily Cactus hybrids. They are the result of crosses between *Echinopsis* and *Lobivia* bringing together the lovely colors of *Lobivia* with the much larger, graceful flowers of *Echinopsis*. This has created a whole range of new colors not found in either *Lobivia* or *Echinopsis*. Shrimp pink, salmon pink, smoky rose, orange, red are all to be found. A good proportion of the plants should be well colored; all will have large lovely flowers. 50 seeds..... **50c**

MIXED PINCUSHION SEED

Mamillarias are one of our specialties and this mixture contains a very pretty and representative group. They germinate readily and can be flowered in two years. You will enjoy them. Per packet..... **25c**

MIXED LIVING ROCK SEED

There are many kinds of living Rocks and we have one of the finest collections in this country. All seeds offered are grown by us. *Pleiospilos*, *Lithops*, *Lapidaria* and many others are included in this selection. Some seeds are very tiny. Per Packet..... **50c**

The NEW SAND CULTURE for CACTI

Hydroponics is the scientific name for growing plants in culture solutions. The new science is rapidly proving its worth and for the cactus enthusiast has especial points of interest. One may grow his plants in clean porous sand, thus greatly reducing the danger of overwatering. This is of particular interest to collectors who live in damp, foggy or rainy places. Many choice or difficult plants thrive under this treatment, for cactus roots when well fed enjoy spreading in the air filled sand.



VITAMIN B-1 JOHNSON'S OWN B, TABLETS For Use in Any Soil

Works miracles on Cacti and Succulents, often bringing refractory plants into bloom. Don't fail to use this wonder working solution. Better Homes and Gardens tests on cacti report wonderful success attained in flowering slow plants. Particularly valuable to stimulate new root growth after transplanting. **75c**
75 Double Strength Tablets with Full instructions.....

JOHNSON'S SAND CULTURE KIT

COLLECTION H 23

Complete instructions on growing Cacti and Succulents in sand with nutrient solutions. Simplifies watering. Makes the most difficult desert plants of easy culture. Particularly useful where winters are long and damp.

Full instructions, 16-gallon package Plant Chem.
75 Johnson's B, Tablets, 50c package Cactus Food.....

CACTI and SUCCULENT SEEDS



Cacti and many Succulents are readily grown from seeds. Some fast growing species make attractive small specimens within a year but most are slower in attaining size. Seeds germinate quickly depending upon temperature. Many will be up in two weeks at 60°. Keep seeds wet until well sprouted. Full planting instructions with each package. We recommend our Jungle Mix for seed sprouting. Purchases of **50c** or more of seed will be sent without packing or postage charge.

DE LUXE MIXTURE

A superb mixture made up of over 75 species. There are no weedy cacti included. They are collected from our own plants many requiring hand pollination. Our cactus seed is not to be compared with other offered assortments for it is not made up of native weedy kinds. The very small seed contains some of the prettiest kinds as *Parodia*, *Rebutia*, *Notocactus*, etc. Put up in two packets of fine and coarse seeds. The collection..... **\$1.00**

MIXED CHIN CACTI

The *Gymnocalyciums* are charming, bright flowered globular cacti from South America. Easily grown and many flower over the entire spring and summer. Almost all flower the second year. Per packet..... **50c**

STONE FACES MIXED

The Stone Faces or *Lithops* are the prizes of any collection. These handsome and entirely novel plants prove of interest to everyone. The seed germinates very quickly and easily. You will have seedlings within two weeks. After they are germinated put them in an airy, light window. About 100 seeds..... **35c**

NOTOCACTUS MIXED

Notocacti are all colorful spined plants with large blossoms. None are too large for the small window garden and all have stood 20° without cold damage. They are a diverse group, easily grown. Mixture contains Golden Ball, Silver Ball, Lemon Ball, Sun Cups, Indian Head over a dozen species. Package..... **50c**

CHOICE SUCCULENTS

A mixture containing many interesting or rare species of *Mesembrianthemums*, *Crassulas*, *Cotyledons*, *Rocheas*, *Anacampseros*, *Aloes*, *Cas-térias*, *Echeverias*, *Dyckias*, etc. Seeds of these plants vary greatly in size, shape and longevity. Some are quite large, some papery and others very tiny. The very fine seed contains many of the prettiest types such as the *Crassulas*, *Cotyledons* and *Echeverias*. To germinate these properly requires a spongy, peaty soil kept wet. We recommend our Jungle Mix as perfect. Per packet..... **50c**

MINIATURE CACTI SEED

A choice mixture of the finest toy cacti, including rare *Parodias*, *Notocacti*, *Gymnocalyciums*, *Mamillarias*, *Echinopsis*, etc. Fifteen or more of the prettiest small growing types. Full instructions for planting. Per packet..... **50c**

CACTUS and SUCCULENT

SOCIETY OF AMERICA

SEND US YOUR SUBSCRIPTION



The Cactus and Succulent Society was organized more than 25 years ago to bring together those interested in these extraordinary plants and to publish a magazine which would provide a forum for the exchange of information and for the publishing of new species and scientific

data. The Journal, under the competent editorship of Scott Haselton, has well achieved these aims, and today is the world's foremost publication about these plants.

Everyone is invited to join the Society and to receive this splendidly illustrated magazine. It has many articles on new plants, stories on exploration trips to new localities, articles on culture, news of affiliated Cactus Clubs in every region of the U. S. Everyone interested in Cacti and Succulents will continue to find this a most interesting magazine.

Membership and Journal— **\$3.00**
Six double issues a year.....
Europe, Africa and Asia..... **\$3.50**

CACTUS SUPPLIES

JOHNSON'S CACTUS COMPOST

Mix With Your Own Sand and Soil

An economical compost for Cacti and Succulents which when mixed with equal or larger quantities of both sand and light loam makes a very suitable soil for all desert plants. Composed of our reclaimed sclerophyllous leafmold, lime, gypsum in the proper proportions for all potted cacti. A light and bulky mixture, the same as we use in our own potting soils for both seedling and specimen plants.

384 cu. inches **\$1.95**
(May be ordered separately postpaid)

115 cu. inches enough for 6-10 quarts of potting soil **75c**

HARDWOOD CACTUS CHARCOAL

Useful in keeping cactus soils sweet and aerated. Helpful in heavy soil.

Per Quart **50c**

ODDS and ENDS

COLLECTION D10

We offer here an unlabelled assortment of Cacti and Succulents at a very low rate. After each packing and shipping day there are many plants left over, rare as well as common varieties. We offer these at 10 plants..... **\$1.50**

CACTUS INSECTICIDES

Our special instruction sheet describing common cactus pests and treatments, with spray formulas. We recommend Isotox as effective. Contains Malathion. Do not use on *Crassulas*.

Instruction Sheet and 2-ounce bottle of Isotox Spray **65c**

VOLCK SPRAY. An oil spray recommended for any kind of scale insect and for mealy bug. These two insects are hard to kill as they have a waxy covering which repels water. We have used it for years, but only recently has it been put up in small bottles. 4-ounce bottle (with orders only) with chart describing cactus pests. Full instructions for use..... **50c**

SUPPLIES for CACTI

VERY few things are needed by the beginner in cactus culture but interest and a desire to form a collection. Loam for potting your plants may be found in field or woodland. Scrape off the litter and use the top 6" of soil. Sandy soils are best. Clean



sand may be purchased from builders or pet stores. For the city dweller and more serious collector we are offering a few things that may make their culture easier. The supplies we offer are those we ourselves use.

JOHNSON'S JUNGLE MIX

A new type of cactus compost for epiphytic cacti which prefer a very open, porous type. Plants develop a vigorous, extensive root system seldom seen in other composts. Expressly for Xmas Cactus, Easter Cactus, Rhipsalis, Chiapas, Selenicereus and all epiphytes. It is also unexcelled for rooting all cacti and succulent cuttings. It may be easily modified into the finest potting soils you ever used for Philodendrons, Begonias, African Violets and all tropical house plants. It should be kept much more moist than old style composts as it dries rapidly. Full instructions for use or modification.

Per bag 120 cubic inches (with orders) 75c
6 quart box. Postage free.....\$2.00
West of Mississippi River \$1.75

JOHNSON'S CACTUS FOOD

A very effective fertilizer with a good organic base the ingredients of which are blended and proportioned to help your plants make normal, matured flowering growth. It should be scattered over the soil, a level teaspoonful to a 4-inch pot, two or three times during the growing season after the plants are well established. Use only during the growing season. Light applications once a month are more effective than heavy applications.

12 ounce bag..... 50c
2 pound bag.....\$1.00

OUR SPECIAL CACTUS LEAFMOLD

A reclaimed, sclerophyllous desert leafmold, sifted, light and dry. Mixed with equal parts of both sand and loam, it makes a fine, economical cactus soil.

115 cu. inches enough to make 6-10 qts. potting soil..... 75c

CACTUS HELPS COLLECTION \$100

Items to make the growing of your plants easier and more enjoyable. Included here are all the things to root and grow your plants except loam and sand. Sand may be purchased from poultry houses or builders. Loam from garden or hillside.

Book, "Cacti and Succulents and How to Grow Them."

75c package Johnson's Jungle Mix.
Johnson's Cactus Food.
Johnson's Cactus Soil Conditioner.
Quart of Cactus Hardwood Charcoal.
20 double strength B₁ tablets.
50 Painted Wooden Plant Labels.
7 Items to Make Cactus Growing Easy. Postpaid..... \$3.00

PLASTIC LABELS

Permanent labels for plants poses a very difficult problem for the collector. Wooden labels while quite satisfactory do not of course last indefinitely. These plastic labels last for many years and outside of copper or zinc labels, which are difficult to affix to the plant, are the best solution I have found to date. Lead pencil writing lasts very well indoors or in the greenhouse. Outdoors it eventually weathers off. Grease pencils are useless. Water proof India drawing ink has proven the best medium for permanent labeling.

3 1/2"x1 1/2". Plastic pot labels. Per 100 \$1.25
4 1/2"x7/8". Large, shaped labels for outdoors or pots. Per 100.....\$1.75

JOHNSON'S CACTUS SOIL CONDITIONER

Of great assistance in keeping cacti in good health, it is designed to add the minerals ordinary garden soils often lack. Desert soils are often high in mineral content, for there is little rain to leach them away. A spoonful of my Conditioner placed about a Cactus plant and stirred lightly into the soil will often bring an ailing one back to health. Mix it with your potting soils.

Small Size, 10 Ounces, Postpaid..... 60c
Large Size, 32 Ounces, Postpaid.....\$1.00

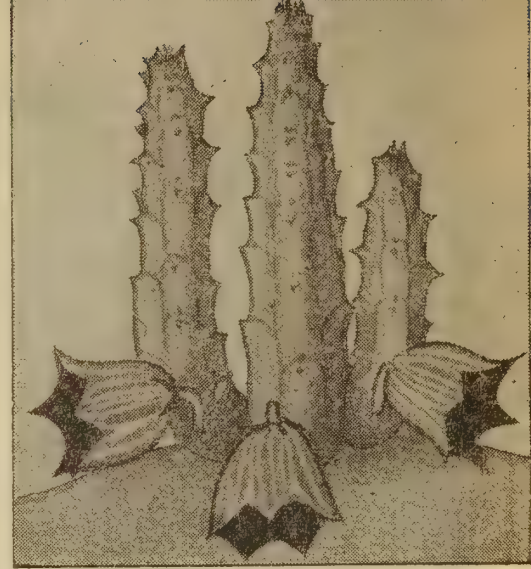
ROOTWELL

Want to raise Cactus cuttings? Our new hormone powder for rooting refractory cuttings of all kinds designed particularly for quickly rooting Cacti and Succulents. Sterilizes the cut surface and induces luxuriant growth of roots. Apply dry with finger to fresh cut.

Full Directions. Per Package..... 50c

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KENYA DRAGON FLOWER

A pretty Dragon Flower with dark crimson-red, bell shaped flowers. Huernia keniensis is an easy and vigorous grower and blossoms from spring to cold weather. 35c

TERMS

I GUARANTEE SAFE DELIVERY

Anywhere in the U. S. or Canada

During the cold months of December and January we do not like to ship east of the Rocky Mountains. Packages get rough handling during the Christmas mail rush also. We do ship to the Pacific Coast and South Western States all year.

50c packing and postage charge on orders of less than \$2.50 due to increased costs.

10% postage charge on orders of from \$2.50 to \$5. Thus add 25c to \$2.50 or 30c to \$3 orders. This is generally only part of actual postage.

FREE delivery on orders of \$5 or more.

How to remit: By check, postal note, money order or postage stamps of large denomination. 50c and \$1 stamps accepted.

No. C.O.D. orders accepted.

How we ship: By Parcel Post which delivers direct to your door. All plants are passed by State Horticultural Inspectors to insure freedom from insect pests. They are packed by experts in specially made cartons insulated from cold and clearly marked "Rush—Perishable Tender Plants."

OUR GUARANTEE is for safe delivery of clean, healthy stock correctly labelled. We cannot undertake to make good plants lost through improper care. If plants are injured in transit and we are notified at once we will give credit for all damaged items.

FOREIGN SHIPMENTS

We ship regularly to practically every country not in the communist zone. We are familiar with most rules and regulations and with customs requirements and you will have no trouble with our shipments.

Cacti travel well via parcel post. Succulents should go by air freight only.

Postage charges are 30c per pound due to new increases. To figure weight of plants: 6 plants per pound including packing materials. Minimum foreign orders (not including Canada) are \$5.

JOHNSON'S VITAMIN B1

For all house plants.

Works miracles on cacti, often bringing refractory plants into bloom. Don't fail to use this wonder working solution. Our customers report success, particularly when used on old plants. Also to stimulate new root growth after transplanting.

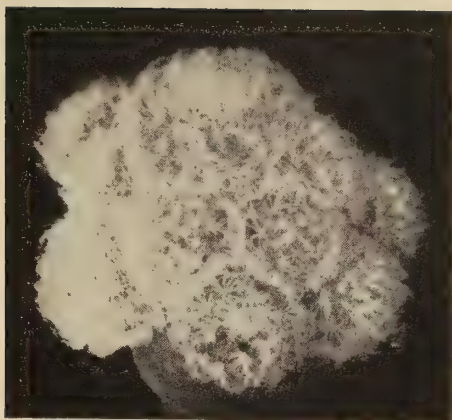
20 double strength tablets.....35c
75 double strength tablets with full instructions for Cacti. Per bottle.....75c

PARAMOUNT, CALIFORNIA

HAIRY STARFISH FLOWER
Branched Potted Plants 40c

5th ☐ 6th ☐ 7th ☐

YOU MAY CHOOSE 10% IN FREE PLANTS ON ALL ORDERS OF \$3.00 OR MORE



FEATHER CACTUS

Certainly one of the most unique and pretty of cacti. *Mamillaria plumosa* has its spines transmuted into curling feathers. Snowy white and as soft as down they completely cover the plant. Easily grown in clean sand with a little leafmold added. A bright airy situation protected from noonday sun. Large clustered specimens \$5. Smaller clusters \$1 to \$2.50. Small. **50c**



A FLORIDA COLLECTION

Mrs. C. O. Crawford lived in Virginia when she bought her first cacti and later carried her collection to Florida. She writes that many of her friends after seeing her plants have become cactus fans. Many of one's most lasting friends are those contacted through similar tastes in hobbies. We have a great many cactus friends in Florida where the plants do quite well.

MEXICAN JEWEL COLLECTION No. D6

These four pretty and easily grown Pincushions may be planted in individual 2 or 3 inch pots or may all be planted together in a small ornamental dish with moderate watering. The set for only **\$1.10**

POWDER PUFF (*Mamillaria bocasana*)

Like a bursting cotton ball, this little plant is clothed with silky, snow-white hair instead of spines, thought it bears one tiny hooked one on each slender nipple. Cream colored flowers followed shortly by very attractive bright red, long, curved seed pods. A jewel among cacti. Very easy to grow in a well lighted window. Sun or partial shade moderate watering. Flowering and fruiting specimens large \$1. Small 35c. Nice 3 year old flowering. **50c**



PINCUSHION COLLECTION

COLLECTION D7

10 species of pretty Pincushions to include a representative selection of the various types. Feather Cactus, Old Lady, Diadem, Golden Stars, celsiana, Yellow Rainbow, Firecrest, etc. All nice attractive plants. Only **\$3.50**

Mamillaria mieheana. A particularly bright spined, clustering species. Spines sulphur yellow. Attractive. Nice. **50c**

Mam. pringlei. One of the handsomest with bright yellow or gold spines, red flowers. **35c** and **50c**

Mam. guelzowiana. One of the very choicest and loveliest. This rare species is like a larger, glorified *M. bocasana* but with longer, whiter wool and large pink blossoms. A jewel. Large flowering **\$1.50**

Mam. microhelix. A dainty clean cut species with star clusters of yellow spines. **35c**



BEAVER TAIL

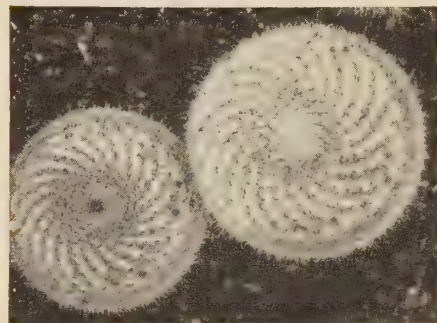
When in bloom the loveliest of all California cacti. *Opuntia basilaris* has glorious rose-pink blossoms each fragile petal like crumpled Chinese silk. Sandy soil with moderate watering sunny location. Each **40c**



OLD LADY CACTUS

Mamillaria hahniana is an old favorite a worthy consort of the Old Man Cactus. It bears long white hair which increases in thickness with age. Carmine red flowers from December to February or later. It flowers with us outdoors in freezing temperatures. Easy to grow. A sunny, airy position. 5 year old specimens \$2. Smaller \$1. 1 year old small 50c. 2 year **75c**

Mam. hahniana superba. A new strain with much thicker, whiter hair even on small seedlings. Nice each **\$1**



DIADEM CACTUS

Don't fail to have this lovely flowering cactus. The bright carmine flowers are a beautiful crown nestling amongst the white wool and dark spines. *Mamillaria werdermanniana* flowers in mid-winter and always attracts attention. Small 35c. Small flowering size. **50c**

Mamillaria seideliana. A pretty hook-spined species. **50c**

Mamillaria pseudocrucigera. A nice variety with very many short white and black spines. Cluster forming. **50c**

Mamillaria pygmaea. Pretty hook-spined variety. White flowers freely borne, and scarlet fruits. **50c**

Mamillaria winteriae. A distinct species with very large nipples. Large 2" **75c**

Mamillaria brauneana. Near *M. hahniana*. Spines white. **50c**

Mamillaria ocotillensis. A rare species. **50c**

LADY FINGERS

Mamillaria elongata Schmollii

A dainty gem and so easy to grow. Each little plant is a bright mosaic of golden yellow harmless spines. Quickly forms fine clusters. **50c**

35c



THIMBLE CACTUS

Mamillaria fragilis

Like the "old woman who lived in a shoe," this little cactus has more children than she knows what to do with. Pure white, harmless spines and every little baby will quickly grow. Each **35c**

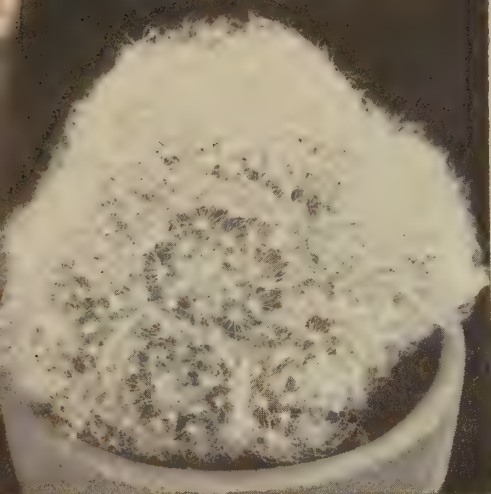


RUBY DUMPLING

Mamillaria tetraantha

A quick growing cactus with bright red flowers and, with maturity, a hoary white head. A long time favorite. Large specimens \$1. Smaller flowering 50c. 1 year **35c**





HUMMEL'S POWDER PUFF

Differs from the popular Powder Puff as it offsets all the way up the plant thus forming a conical, tall, tight cluster. Distinct and beautiful, pure white. Quick grower soon making a nice specimen. Nice many headed clusters, well formed each. **\$1**

MAMILLARIAS (continued)

Mamillaria calacantha. A pretty quick growing species with closely appressed spines. Each **50c**

Mamillaria martinezii. A fine species forming clusters with age. Flowers pale crimson. Large 2" to 3".....**\$1**

Mamillaria yucatanensis. A rare plant with pale yellow spines and white wool in the nipple axils. 2 year old.....**50c**

Mamillaria rhodantha sulphurea. Yellowish spines. A quick growing plant with bright red flowers. Each.....**50c**

Mamillaria phaeacantha. A charming plant very fast growing. With age the flowering top becomes white woolly. Nice red flowers. 1 1/2". **50c**

Mamillaria melanocentra. Vigorous plant up to 5" in diameter with large nipples. Flowers an inch across. Nice pink. Small **35c**. 2"-2 1/2".....**75c**

Mamillaria hamiltonhoytae. A splendid species rather flat and wide up to 9 inches. Lots of white wool and pink flowers. 1 1/2"-2".....**75c**

Mamillaria pfeifferi (fuscata). A bright plant with golden yellow spines. One of the best. Flowers crimson. 2".....**75c**

Mamillaria neopotosina. A vigorous, pale yellow spined plant with red flowers. Each.....**50c**

Mamillaria bullardiana. A rare, slender, cluster forming species with large white flowers. **50c**

Mamillaria trohartii. A distinct variety near *M. phymatothele*.....**50c**

Mamillaria sonorensis hiltoni. Large ruby red blossoms. White wool. 2".....**75c**

MAMILLARIA DEALBATA

A handsome white spined variety much faster in growth than *M. elegans* to which our plant is allied. It forms nice clusters, has pretty red blossoms and scarlet fruits. Easily grown. Likes a sunny window, moderate watering. 3 year flowering **50c**. Small.....**35c**



AN IOWA COLLECTION

A part of the collection of Mrs. G. E. Moore. The young lady is just testing to see if they have stickers. The flowering plant is Butter Pincushion which flowers several times each summer.



OWLS EYES

A well known plant to fanciers *Mamillaria parkinsonii* has snowy white spines. It branches by forking the heads dividing into two. Handsome. 5 years old or more, 2 to 4 heads **\$1.50** to **\$2.50**. Nice.....**50c**

CALIFORNIA 1957

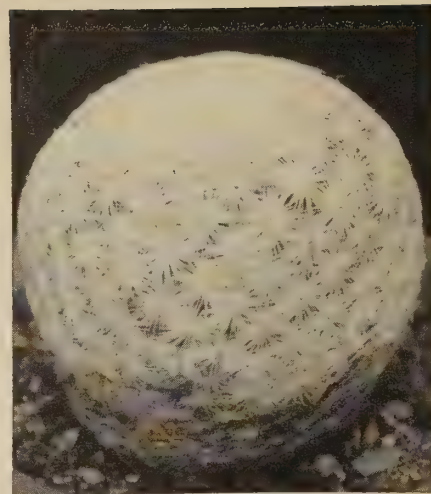
BIENNIAL CONVENTION

The Cactus and Succulent Society of America will hold its 7th convention at Berkeley, California in early July 1957. The local Berkeley Cactus and Succulent Society will be our hosts. The convention will be for 5 days and many nice trips are contemplated, some to the University of California Botanic Gardens. A crowded 5 days of lectures, discussion panels, travels. Our conventions are a friendly get-together with fellow amateurs from all over Canada and the U. S. The newest beginner who has only a plant, an old fancier with a large collection or the scientist interested in taxonomy or ecology will find plenty of fellow spirits. Join the Society, receive the Journal, come to the convention and bring the children.



A TENNESSEE COLLECTION

A portion of the many plants in the collection of Mrs. Herbert Qualls. Several windows are filled with well grown plants. In summer they are moved outdoors.



GOLF BALL

A rare plant from Mexico. *Mamillaria hererae* is almost round and pure unblemished white like a golf ball. Bears very pretty pink blossoms. Likes a sandy soil or just sand and leafmold, not too much water and a sunny location. Mature flowering 1"-1 1/2". **\$1**

Mamillaria hoffmanniana. A pretty species, tall growing the crown becoming woolly white. Flowers red.**35c**

Mamillaria flavovirens. Biscuit-shaped plant with many small conical nipples and pale yellow flowers. Large 1 1/2".....**75c**

Mamillaria echinaria. A densely spined yellow species, clustering.....**50c**

Mamillaria aurihamata. Somewhat like the Powder Puff but with yellow hooked spines. **50c**

Mamillaria pentacantha. Tall growing. Each **75c** and.....**50c**

DOLICHOTHELE

A group closely allied to *Mamillaria* but with larger yellow flowers.

Dolichothele sphaerica. Butter Pincushion. A pretty clustered plant with long, deep green nipples. Lovely, large, butter yellow blossoms. Each.....**50c**

ESCOBARIA

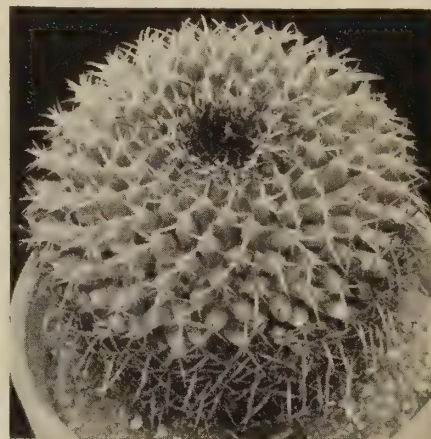
Look like *Mamillaria* but bear their flowers at base of the young nipples.

Escobaria tuberculosa. Solitary or branching with white spines and pink blossoms. Mature. **50c**

Escobaria roseana. Charming yellow spined plants, cluster forming. Flowers pale yellowish. Rare.**50c**

Escobaria chaffeyi. White cluster.....**50c**

Escobaria strobiliformis. Pure white slender stemmed clusters.**50c**



GIANT PINCUSHION

A giant among its fellows, *Mamillaria gigantea* with single heads up to 9 inches across. Strong recurved spines tightly interlaced. Nice specimen plant easily grown. Small.....**35c**



MAMILLARIA UNCINATA

A dark green species with large nipples tipped with 4-7 dark radial spines and one strong hooked spine. It is found near San Luis Potosi in Mexico. Of easy culture. 4 year old 2-2½ inch plants \$1. Small 1" each.....

50c



GNOME'S PINCUSHION

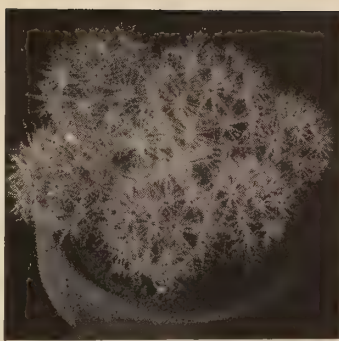
Mamillaria decipiens flowers when quite small and its pale yellow spines and quantities of babies make it a great favorite. Grows anywhere the white blossoms appearing as early as January. Nice plants each.....

35c



A NEW YORK COLLECTION

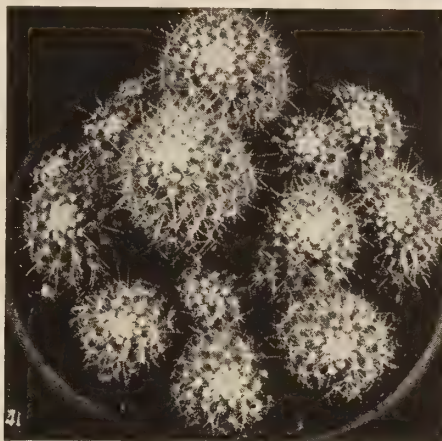
Mr. W. P. Kluth has a very fine collection. His plants are grown in a pit greenhouse. Such a greenhouse is very sensible, economical and easy to heat. The benches are at ground level or a little above while the paths are dug into the ground. If entered from a cellar door the furnace heat is almost enough, particularly if during cold snaps the glass is covered with thick grass mats. Moisture from the paths maintains enough humidity.



GRAPE CACTUS

This tiny cactus bears an endless quantity of "pups" each one of which will grow. Grows easily in sun or shade the cream flowers followed by scarlet berries. Clusters.....

35c



YELLOW RAINBOW PINCUSHION

The varieties of Mamillaria rhodantha are very variable. They have charming ruby red blossoms and this one has clear yellow spines. They are first solitary and are fat golden columns. Large 4 year old, \$1. Small.....

35c



AN OREGON COLLECTION

Just a small part of the collection of Mrs. H. M. Nord. Many collectors make more room by using hanging shelves to accommodate their plants. Plants do particularly well because of more air movement and better light.

PHOTOGRAPHS

We always enjoy receiving photographs of your cactus collections. Everyone enjoys seeing how you have succeeded and many of us find excellent new ideas. We are particularly pleased with photos showing yourself with your plants that your fellow enthusiasts may know you better. Small clear snapshots are better for our purpose than enlargements. We cannot undertake to return them. For those used in our catalog we will give a \$5 credit to be used for plants.



SILKEN PINCUSHION

Considered by many to be the prettiest of the Pin-cushions. Mamillaria bombycina is truly an exquisite plant. The nipples are in perfect spirals each tipped by 30-40 glossy white slender radial spines with 2-4 erect centrals the lower strongly hooked yellow or brown in color. Abundant snowy wool fills the axils and covers the top of the plant. Flowers a charming shade of pink. Easy to grow in a light position. Larger \$1.25. Nice small plants fully characterised.....

75c



A NEW ZEALAND COLLECTION

Our New Zealand friends have a fine cactus society and here is a part of their cactus and succulent show sent in by Mrs. Winstone of Wanganui. They are real enthusiasts. We ship regularly to the Philippines, Hongkong, Bangkok, India, Japan, France, England, Switzerland and South and Central America.

CORYPHANTHA

The Coryphanthas are closely related to the Mamillarias but in general bear larger flowers, have grooved nipples and often bear young plants on them. Culture the same as Mamillaria.

Coryphantha bumamma. Very large nipples the axils filled with white wool at flowering time. Flowers large, yellow. 1"-1½".....

75c

C. andrae. Handsome species. Small.....

50c

C. bergeriana. 1½".....

65c

C. clava. Star Pincushion. White spine stars.

35c

C. elephantidens. Pink flowers. 1".....

60c

C. georgii. 2".....

50c

C. gladiospina......

50c

C. longicornis......

50c

C. ottonis......

50c

C. poselgeriana......

50c

C. roederiana. 1½".....

75c

C. scolymoides. 1½".....

75c

☆ FASCINATING BARREL CACTI or ECHINOCACTUS

THIS great group is mostly ball or barrel-shaped and only grow tall with great age. Actually some of the cacti shown here are more closely related to the Cerei but due to their shape and culture are included. Some are tiny species, marble size; others are large enough to fill a truck. They belong to two great geographical groups the members of which are fairly endemic either to North or South America. To the North American group belong the true Barrel Cacti, Ferocactus and Echinocactus, the Bishop's Cap, Leuchtenbergia, Ariocarpus and a number of less well known genera. In South America there are many beautiful kinds quite different to those found in the north, Parodia, Neoporteria, Malacocarpus, Notocactus, Pyrrhocactus, Gymnocalycium all having many species. Those of Cerei relationship but of ball type include Lobivia, Echinopsis and Rebutia. Among the South American kinds are many smaller, less known genera which are rather localized in their distribution. All the Echinocacti have one feature in common that is, rigid stems. This accordion or pleated effect well shown at the left allows the plant to expand rapidly without bursting after the rains. Thus they can store considerable quantities of water to last them through the prolonged dry season.

CULTURE: Most of the Barrel Cacti require much the same care as the Pincushions. They like an open porous soil, composed of about 1 part loam, 1 part clean sharp sand, and a half part leafmold or peatmoss. You may vary the proportions to suit your experience. Give them a sunny or very light position in the window and see they get plenty of fresh air. Water moderately only when the soil is dry.

STRAWBERRY CACTUS

A patch of these is seldom without flowers in summer. Hamatocactus setispinus grows so easily it is a great favorite of all. Sun or part shade. Small 1" 35c. Flowering size..... **50c**

ASTROPHYTUM

To this fine group belong some of the most popular and pretty cacti found in Mexico. They are very satisfactory growing under many kinds of treatment. They need an open sandy soil and a very light or sunny position, moderate watering only when dry.

Astrophytum asterias. Sand Dollar. A scarce variety quite spineless. Best soil for planting, sand with a little leafmold added. Large \$1.25. Flowering 1½-2" **90c**

Astrophytum capricorne. See color cut at right.

A. capricorne senilis. Long black papery spines. Large \$1. Small **50c**

Astrophytum ornatum. Star Cactus. 2-2½" \$1. Small 1 to 1½" **50c**

A. ornatum mirbellii. Whiter variety..... **75c**

Astrophytum myriostigma. Bishop Cap. See below.

Astrophytum myriostigma coahuilensis. A white, slow growing variety. Nice **50c**

Astrophytum myrio. nudum. A rare green variety. Large \$1. Small **60c**

Astrophytum myrio. potosina. Quick growing variety **50c**



ASTROPHYTUM CAPRICORNE

A free flowering plant if given plenty of sun. Blossoms from 2-3" in diameter richly colored. Plants with spiral ribs, spineless, green, dotted white. Large 5 year old \$1.50. Nice \$1. Smaller..... **50c**

Astrophytum myrio. columnaris. Tall growing **50c**

Astrophytum myrio. tamaulipensis. White variety **60c**

LOBIVIA

The handsome and easily flowered Lobivias are the choice of many fanciers. They grow fairly quickly, are not impatient of over watering and flower when small. They do particularly well in our cooler, moister regions as most are high mountain species. I collected many kinds at 10,000 to 14,000 feet.

Lobivia breviflora. Pretty red blossoms. Plant small. Large 5 year old \$1. Smaller **50c**

L. churinensis. A red flowered Peruvian species. A pretty plant easy to grow. 1½"-3 years **50c**

L. aurea. Golden Easter Lily. See page 32.

L. chrysochaete. Rare yellow flowered species with very short tiny spines. 1½" **75c**

L. cylindrica. A beauty with large bright golden yellow blossoms. Easily grown and flowered. Sunny location. 4 years 2" **\$1**

L. formosa rubriflora. A very large growing species bearing flowers at the crown bright red in color. Handsome and makes a fine large specimen. 3 to 4" 5 years \$2. 2" \$1. Small **50c**

L. euanthema. A pretty, tiny spined plant with large yellow blossoms. Nice 2-2½" **75c**

L. huascha. A clustering plant with large yellow blossoms some forms up to 6" in diameter. 2 years old 2-3" **50c**

L. huascha rubra. Bright red blossoms. A very fine plant that has taken almost zero weather **50c**



THE CRESTED HEDGE HOG

Echinopsis multiplex cristata

Crested cacti are the beauties and curiosities of the plant world. As you may see they do not look at all like ordinary cacti but assume a curious ruffled growth bending and curving into beautiful fluted piles. Same care as Pink Easter Lily. This is a rare plant I have not offered for 20 years. Nice bright crests on their own roots. Special..... **\$1.25**



BISHOP'S CAP

A popular spineless cactus for every collection and very easy to grow. Astrophytum myriostigma flowers freely all summer. Sunny location, moderate watering. Large 2-2½" 3 years old \$1.25. Small 35c. Nice plants **50c**



WALLFLOWER CROWN

A charming plant Rebutia pseudodemi-nuta has dark red flowers in the spring. Easy to grow and soon branch into clusters. A light window or full sun. Moderate watering. Small 35c. Nice..... **50c**



RED CROWN

Here is a plant that everyone can flower for if you order in the spring we will ship them in bud and every bud will open. Small or large they will all bloom. It soon clusters and the plantlets bloom also. Any well lighted window suits them if protected from the noon sun. They like rich but well drained soil with moderate to generous waterings. Flowering season April and early May. Small 35c.
2 year flowering..... **50c**



PAPER SPINED OPUNTIA

An odd cactus from Argentina, Tephrocactus glomeratus bears paper ribands instead of spines! The joints come apart easily and each will root if planted in sand in a very sunny location. Give moderate waterings in summer less in winter. Each..... **35c**



MEXICAN LIVING ROCK

Ariocarpus fissuratus is an odd flat-topped cactus with leathery, furrowed tubercles. The lovely pink blossoms appear in the wooly center in September. It grows well in sand with a little leafmold added. It enjoys a sunny, airy location. Water sparingly as it is impatient of wet feet. Large specimens 75c. Smaller flowering..... **50c**



PINK BALL CACTUS

The only Notocactus with pink blossoms. A truly lovely plant which blossoms for everyone. Flowers 1 1/2" in diameter bright pink with a yellow throat the petals like satin. Charming. It likes a good rich, well drained soil and a sunny location, moderate to generous watering. Notocactus rutilans
3 year blooming size..... **50c**

LOBIVIA continued.

Lobivia janseniana. Large yellow flowers. Rare **\$1**

L. jajoiana. This species has large red flowers with an almost black throat. Charming. 3 years old \$1. Smaller **50c**

L. longispina. A long-spined rare species with white flowers. A large plant. 3 years old **75c**

L. neohaageana. A dwarf species with orange tinted blossoms. Large semi-tuberous root. 1 1/2" **\$1**

L. nigra. A large species with black-wooly, white flowers. 1 1/2" **75c**

L. pentlandii. Copper red flowers. From the shores of Lake Titicaca. 1 1/2" 3 years **75c**

L. sanguiniflora. Large red blossoms. Northern Argentina. Large 3 years 1 1/2" **\$1**

L. setosus (famatimensis setosus). Handsome large, satiny yellow blossoms **75c**

L. walterspielii. A rare red flowered species. 5 years **\$1**

ARIOCARPUS

All the Ariocarpus bear horny tubercles instead of ridges. The flowers are very bright and pretty, white or various hues of pink. Coming from very arid regions they are best potted in sand with a little leafmold added. Fine show plants.

Ariocarpus kotschoubeyanus. A handsome plant with coppery green tubercles, bright violet-red blossoms. Mature flowering **\$1.25**

A. furfuraceus. A fine large species with triangular grey green tubercles. Flowers white to pink. Mature flowering **\$2**

A. lloydii. Large plant with brown tubercles. Specimens **\$1.50**

A. macdowellii. The smallest species. Coppery green tubercles. Bright violet red flowers **\$1.25**

A. retusus. Photo page 30.

A. scapharostrus. A distinct species with long, erect, grey green, triangular tubercles. Flowers violet-rose. Mature flowering **\$2**



FRILLED LACE CACTUS

These plants bear gaudy, bright rose-pink blossoms 2"-2 1/2" across. They flower freely several times during the summer. Plants conical 2"-3" tall. In the wilds they take below zero weather. Echinocereus fitchii is charming. Each..... **35c**



WHITE CHIN CACTUS

Should be in every collection. A real spiny plant with black, curved spines. Charming white blossoms in June. Gymnocalycium schickendantzii is easily grown, sandy loam, moderate watering, sun. Mature blooming specimens 5 years \$2. Smaller blooming \$1. Nice plants..... **50c**



LEMON BALL

Our larger sizes can be shipped in bud in early spring. Notocactus submammulosus is a must for the beginner. Stands lots of cold. Rich porous soil, moderate waterings. Mature blooming 5 year old \$1.50. 3 year **50c**
\$1. Small 85c. 2 year.....



GLORY OF TEXAS

Gorgeous crepe-like, brilliant pink blossoms 2"-2 1/2" across. Blooms from spring till fall. Our plants are all mature flowering specimens with dormant flower buds. Thelocactus bicolor likes light soil or sand with leafmold, moderate watering. Specimens 75c. Nice 2" flowering..... **45c**

QUARTET COLLECTION D8. Four Fine Flowering Cacti \$1.45



FIRE CROWN CACTUS

This brilliant red flowered Crown Cactus, *Rebutia senilis*, will open your eyes to the beauty of cactus flowers when you see it in bloom. Free in flowering the small plants are wreathed in dainty fire-red blossoms in late spring. An easy to grow plant with white, harmless spines. Rich porous soil, moderate watering, sunny location. **50c**
Small 35c. 2 year old.

CROWN CACTI REBUTIA

Small cacti mostly from the mountains of Argentina. All have bright blossoms and are easy to grow and flower. Light position, rich porous soil, moderate waterings.

Rebutia chrysacantha lutea. A lovely lemon yellow flowered variety of this red flowered species. Small**\$1**

R. costata. A new special recently introduced**\$1**

R. dasyphrisa. A very pretty species near *R. xanthocarpa*. Flower bright red**50c**

R. elegans. A handsome variety with dark carmine-red blossoms plant vigorous, spines white, bristle-like**50c**

R. fiebrigii. A tall vigorous species with close white bristles. Flowers dark red**75c**

R. grandiflora. Color plate page 29.

R. krainziana. Dark crimson blossoms. Plant with white areoles almost spineless**75c**

STAR CACTUS

Every collection should have the handsome *Astrorhynchium ornatum*. An old favorite of easy culture. It is beautifully dotted with a myriad snowflakes. Even the tiniest plants are perfect miniatures of the largest ones. Has large, lemon yellow flowers. Grows freely in a sunny location or with some shade. 4 year old \$1. Small plants 35c. **50c**
Nice 2 year old.



REBUTIA continued.

Rebutia kupperiana. Deep crimson flowers dark brown spines**75c**

R. nigricans. A new species of the digitiformis group**75c**

R. orurensis. Small plant forming finger-like, tight clusters. Flowers salmon color. Each**75c**

R. senilis iseliana. A new variety of this fine species.....**75c**

R. pseudodeminuta schumanniana. A rare variety with dark spines**75c**

R. pseudominuscula. A rare plant forming clusters and one of the original species of Britton & Rose. Dark red flowers with slender tube**75c**

R. ritteri. A new species.....**75c**

R. steinmannii. Finger-like stems. Very dark red flowers. Pretty**50c**



RAINBOW CHIN CACTUS

The colorful *Gymnocalycium baldianum* (*G. venturianum*) varies from pale pink through various shades of red to brilliant ruby red. They are quite free in flower and are found in bloom all spring and early summer. Small 35c. 4 year old \$1. **50c**
Nice flowering

CACTUS MAGAZINE

Join the Cactus and Succulent Society of America and receive the Journal. A beautifully illustrated magazine, issued every 60 days, about cacti and succulents. Members from all over the world. Send in your culture questions to my column. \$3 per year. \$3.50 Foreign.



LOBIVIA PAUCARTAMBENSIS

A very bright crimson flowered new species. Flowers large short-tubed and produced from spring to November. Plant small up to 1 1/2" diameter freely producing offsets which root while still attached to the mother. It flowered longer with me than any other species even in quite cold weather. Moderate to generous watering. Nice plants.....**50c**



PURPLE HEDGE HOG CEREUS

Echinocereus sarrisophorus has long white spines and 3" brilliant purple blossoms. Striking when in bloom. Stands considerable cold. **50c**
Nice plants.....



AN OHIO COLLECTION

A part of the collection of Mrs. L. H. Herman. She has been getting cacti from us for years. Many of our customers we have supplied for over 20 years.

ECHINOCACTUS

These Barrel cacti are Mexican and are fine for specimens. They have numerous ribs though younger plants bear nipples. Some reach 6 ft. in height and weigh a ton.

Echinocactus ingens. This giant Barrel is a very slow grower. The first few years it is powder blue in color later becomes barred with maroon and with age becomes green. A handsome clean cut plant. Each**50c**

A. grusonii. Golden Barrel. Bright yellow spines. Young plants with nipples. Small plants 60c. Large 4 to 5 years**\$2.50**



PELECYPORA ASELLIFORMIS

Extremely rare plants related to *Mamillaria*. Have large bright purple-pink apical blossoms. Sunny window and very sandy soil or sand and leafmold. Mature flowering imports.....**\$1.25**

Pelecypora valdeziana. A rare species, white spined and smaller than the above. Mature imports.....**\$1.50**



PINK CROWN CACTUS

Everyone is pleased with the handsome blossoms of *Rebutia violacea*. The exquisite, brilliant pink flowers are produced in a circle around the base of the plant. They flower from January on. Very easily grown in sun or part shade. Do not keep too dry. Clustered specimens \$1. Small 35c. Nice flowering **50c**

CHIN CACTI

Gymnocalycium

The Chin Cacti are a distinct group mostly from Argentina. There are many species all with pretty blossoms. Some are among the most recommended for indoor gardens as they flower very well under varied conditions.

Gymnocalycium anisitsii. White flowered. Mature **\$1.50**

G. andreae. Pretty yellow flowers. Flowering size **75c**

G. bruchii. Photo page 28.

G. damsii. Photo page 29.

G. delaetii. Like *G. schickendantzii*. 4 years 2"-3" **\$1.50**

G. denudatum. An odd beautiful species. Flowers white, ribs low **\$1**

G. deesianum. Handsome new species. White **\$1**

G. fleischerianum. Color page 36.

G. gibbosum. Large white to pink flowers. 2" flowering, 4 years **\$1**

G. schlumbergeri. Coppery colored plant **50c**

G. gibbosum ferox. Longer spines. 1½" **\$1**

G. caespitosum. Rare. Small **75c**

G. hyptiacanthum. Yellow flowers. Flowering **75c**

G. joosensianum. Pale pink. Rare 3 years **75c**

G. leeanum. Yellow Chin. Nice **50c**

G. loricatum. Rare **\$1**

G. mostii. Fine. Pink. 2"-2½" flowering **\$1**

G. monvillei. Fine. 6 years **\$1.50**. Small **50c**

G. multiflorum. Splendid. 1¼"-1½" **75c**

G. occultum. Pale pink. 3" 6 years **\$1.50**



AGAVE CACTUS

Leuchtenbergia principis has yellow papery ribands topping the long tubercles from which the very large, fragrant yellow flowers are produced. The roots are thickened so use a very porous soil. Easy to grow. 3 years old, **50c**
75c. Smaller

Gymnocalycium quehlianum. Dwarf Chin. Photo page 29.

G. saglione. Giant Chin. Photo page 31.

G. schickendantzii. White Chin. Color page 25.

G. venturianum. Rainbow Chin. Page 26.

WEINGARTIA

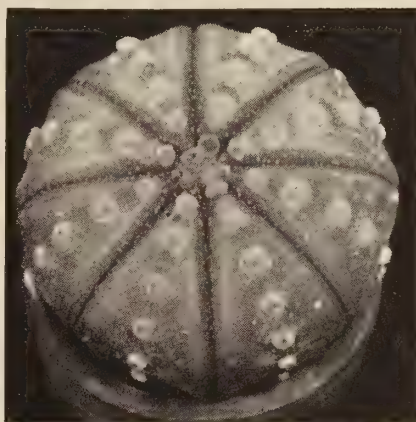
A small group of globose, spiny cacti from Bolivia and Argentina. Flowers very brilliant orange yellow produced in succession.

Weingartia cumingii. A handsome plant with low rounded tubercles and many brilliant flowers. Easily grown and flowered. Small **50c**. 3 year old 1½"-2" **\$1**

NEOWERDERMANNIA

This extremely rare genus is a collector's item. It grows in the high Andes of Bolivia, Argentina and Chile. Small, globular plants the ribbed stems divided by chins. Its relationship is near *Oroya* and *Weingartia*.

Neowerdermannia vorwerkii. Plant coppery green, spines black, appressed, flowers lovely pink. Mature imports **\$5**



SAND DOLLAR

Entirely spineless, freely bearing 2" yellow blossoms with red throat. Likes a very sandy soil, watering lightly only when dry. Sunny location. Very scarce. Large 2½"-3" each **\$1.25**. Smaller **90c**

SOLISIA

Solisia pectinata is most nearly related to the *Mamillaria* group. Plants white an inch in diameter with tiny, close-set, pectinate spines. Flowers white, the petals with a pink stripe. A very sandy soil, moderate watering, sunny location. A companion to *Pelecypora*. Rare. Mature **\$1.50**

AZTEKIUM

A monotypic genus from Mexico of very peculiar aspect. Plants 1½" in diameter globose, depressed with 9-11 low ribs, no spines and peculiarly furrowed longitudinally. Flowers long-tubed, pink. Extremely slow in growth. Plant in sand with just a little leaf-mold. Needs full sun. Do not overwater. A rare, collector's item. Mature **\$2.25**



EASTER LILY CACTI

Paramount Hybrids

These bright flowered cacti are a series of hybrids between various *Echinopsis* and *Lobivias* combining the characters of both and revealing many new colors and great freedom of bloom. The colors range from shrimp and salmon pinks to deep red.

We have raised many thousands and selected only a few. They are slow to propagate and it will be some time before the newer ones are available though some of the best are now beginning to increase. They are vigorous growers as is often the case in hybrids and tend to flower over a long spring and early summer period, several blossoms appearing together in flushes rather than scattered. They do best in a rather rich loam soil and flower most in a fully sunny situation.

Orange Paramount. Orange yellow flowers. Very vigorous with strong root system. Free flowering **\$1.25**

Red Paramount. Deeper orange red. Strong growing, free flowering **\$1.25**

Fluffy Ruffles. Large ruffled flowers taupe pink flushed orange. Free blooming, fine color. Vigorous **\$1.50**

Salmon Queen. Rich salmon in color the plant and flower like *Echinopsis*. A good vigorous grower. It flowers most freely when offsets are removed **\$1**

PARAMOUNT ASSORTMENT

Collection D9

We have a number of beautiful, bright colored *Echinopsis* hybrids flowering each season that would gladden any fancier's heart. They are from our best varieties in pastel shades of salmon, orange or red. They will not be named but will be of blooming size (flowered) for 1956. A very choice lot.

3 nice plants in assorted colors \$2.50

PINK PEARL CHIN CACTUS

A large flowered species *Gymnocalycium leptanthum* has pearl pink blossoms the petals deeper color at the base. A charming plant flowering freely the blossoms often larger than the plant. Large 5 year flowering **\$1.25**. 3 year **75c**. Nice **50c**



CHILEAN PINK BARREL

Bright pink blossoms appearing from February to May. *Neoporteria subglobosa* is a spiny cactus for the connoisseur growing to a foot tall. Many flowers are produced in succession of a most lively color. Quite easy to grow enjoying full sun, moderate watering. Large plants 5 years old **\$1.50**. Smaller **\$1**. Nice **50c**





VIOLET SEA URCHIN

A lovely flowered small cactus flowering profusely in early summer. The blossoms of *Acanthocalycium violaceum* are particularly bright and shining. Flowers when small seldom reaching 3" in diameter. Grows easily in sun or part shade flowering best in sun. Small 35c. 3 years old..... **50c**



NOTOCACTUS PAMPEANUS

A fine very spiny plant bearing bright blossoms in late spring. Easily grown in sunny location. Stands lots of cold. Give generous treatment. Small plants..... **35c**

MILA

A small Peruvian genus. Plants with short finger-like clustered stems and yellow blossoms. It is much more widely distributed than formerly supposed. Very moderate waterings, sunny location.

Mila caespitosa. From near Lima\$1
Mila alboareolata. New species\$1
Mila senilis. A novel new species\$1

GOLDEN PARODIA

An elegant golden spined globe. *Parodia chrysanthion* must attain age and be grown slowly to reach its true beauty. Blossoms lemon yellow. Small 2 year old 50c. 6 year old thickly spined bright specimens..... **\$1.50**



LOBIVIA LARABEI

A small, clustering new plant bearing very bright scarlet flowers with white throat. It offsets freely and each may be detached to form a new plant. Of easy culture. Sun or part shade..... **35c**



BRUCH'S CHIN CACTUS

Gymnocalycium bruchii. Charming clear pink blossoms a real "must have" for the fancier. Clusters \$1. Flowering 2 years..... **50c**

SOEHRENSIA

The plants in this genus may be thought of as the South American counterparts of *Echinocactus*. They may reach 18" in diameter with many narrow ribs. Flowers with short, wide, wooly tubes, soft red frutis.

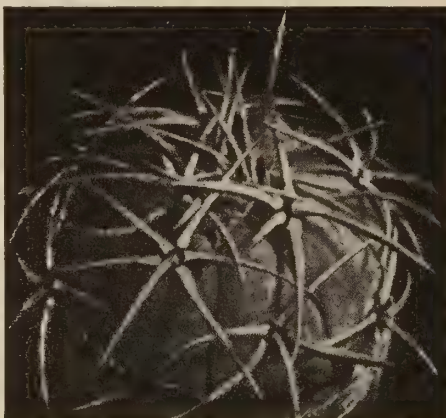
Soehrensia bruchii. This rare cactus grows to large size with many ribs; rather spiny plant. Flowers dark red. Small 50c. 4 years 3"\$1



ROSE PLAID CACTUS

Gymnocalycium friedrichii is the one all visitors to our nursery choose. The plant is coppery green or red striped the large blossoms clear pink. Extremely free in flower early spring to fall. Small 35c. 3 year flowering..... **50c**

Soehrensia korethroides. A large species up to 18" diameter, 15 to 20 ribs. Brilliant deep red blossoms. Splendid. Easily grown 1" 35c. Larger **50c**



EAGLE CLAWS

An old favorite bearing handsome frilled pink flowers in summer. *Echinocactus horizionthalonius* has a wooly crown, few rounded ribs and recurved pink or red spines with pale silvery gray or blue body. Full sun, very sandy soil. Nice flowering 2" **50c**

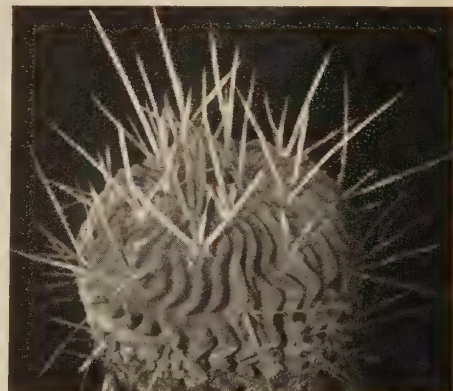
WATERING

Cacti are desert plants and so the wild cacti live under different conditions than ordinary house plants. They are adapted to grow with a minimum of water at the roots and to survive long periods of drought. The term "moderate watering" used in our catalog may be explained as sufficient water to dampen the ball of roots in the pot only enough so the ball will be dry in less than 10 days. Never water while moisture remains. To keep the soil continuously moist or wet will cause the roots to rot, actually to drown. They need air as well as water and dry soil has air.

ISLAYA

The *Islayas* are a peculiar group from southern Peru. Originally there were two close species from the pampa. In my wanderings I have found several distinct ones some not on the pampas.

Islaya minor. A small barrel to 3" with yellow flowers and 2" pink, papery fruits. 2"-3" flowering \$1.50. Smaller\$1



BRAIN CACTUS

Stenocactus has many species almost all with many ribs up to 100. Flowers are pink, white or striped with purple. Grow easily, like sun and moderate waterings. Nice ribbed, small plants. 2 years..... **50c**



INDIAN HEAD

Notoctactus ottonis has a long spring blooming period. The buds appear as cocoa-brown twists of wool which swell into glittering yellow blossoms. The red tipped stigma surrounded by minute yellow stamens which roll down when a bee lands in their midst. Easily grown. Small 35c. 2 years **50c**



SCARLET CROWN CACTUS

Rebutia grandiflora is the largest flowered of the Crown Cacti and one of the choicest window garden plants. It blooms very freely in the spring over quite a long time. New buds appear as old blossoms fade. It likes a light position but sheltered from the direct noon sun. Water well but allow to dry out between waterings. Spongy, sandy composts which suit them dry out rapidly. Large \$1. Smaller.....

50c

EASTER LILY CACTI

ECHINOPSIS

There are a great many kinds of *Echinopsis* as it is a variable genus found in Brazil, Argentina, Paraguay and Bolivia from low to high elevations. Plants globular to barrel-shaped, ribbed and variously spined some having hooked centrals. Flowers large with long wooly tubes and spreading limb in color from white to brilliant red. It is hard to distinguish some from *Lobivia* and others from *Trichocereus*. All vigorous, easily grown plants flowering when small, eminently suited for the window garden.

Echinopsis ancistrophora. Large white flowers, long slender tubes. Plant with some weak hooked spines. Easily flowered. 1 1/2" nice.....

50c

E. brasiliensis. A new species recently received.....

50c

E. cordobensis. This is the first time I have had this spiny species.....

50c

E. ferox. A fiercely spined species. Very slow growing. 5 years 3".....

\$1.50

E. fiebrigii. Large, white flowered species. 3" 3 years.....

\$1

E. grandiflora. One of the handsomest of all with large graceful flowers clear pink with a deeper pink stripe down the middle of each frilled petal. A vigorous grower. 1" to 1 1/2" 75c

DAM'S CHIN CACTUS

Everyone can flower *Gymnocalycium damisii*. Flowers when still quite small. Blossoms pink-white 1 1/2 inches across and borne in succession during spring and early summer. Charming. Sun or part shade good loam soil moderate to generous watering. Specimens \$1. Small 35c. Flowering.....

50c

Echinopsis graulichii. A nice white flowered species. 1 1/2" 50c. Larger.....

75c

E. hamatacantha. See rear cover.

E. huottii. Giant Easter Lily. Huge white flowers. A distinct species from the high Andes of Bolivia. 2"-3" each.....

50c

E. leucorhodantha. Extremely free flowering small plant. The charming white blossoms ethereal. Small 35c. Larger.....

50c

E. nigra hybrids. Those that have flowered were colored. Nice.....

50c

E. obrepanda. This distinct species has very wide open flowers sometimes pink or salmon. Small 35c. Larger.....

50c

E. polyancistra. A real beauty the blossoms 7" long. Plants orange size. Small 35c. Larger.....

50c

E. ritteri. A very large species up to 8" in diameter. Huge white flowers borne at the top of the plant. Distinct.....

50c

E. smrziana. Large clustering species with white flowers. Rare.....

\$1

E. sylvestrii. A spiny plant with white flowers. Good bloomer.....

50c

E. tucumanensis. A cluster forming species. Distinct.....

50c

E. Johnson's Hybrid. A huge frilled dark pink flower. Very free in bloom.....

50c

E. Los Angeles. Large handsome frilled pink flowers. Plant with very short spines.....

50c



RAINBOW CACTUS

Echinocereus melanocentrus is sure to flower in spring and summer and generally has buds when shipped which continue to grow and open. It flowers often when only an inch tall but may grow to 3" the blossoms always larger than the plants. Of the very easiest culture liking a sunny window. From Oklahoma. Large 2" 50c. Smaller.....

35c

ECHINOCEREUS

These cacti are all suitable for pots or small gardens. Many are native to our south west, Texas, Oklahoma, Colorado, New Mexico, Arizona, California, Nevada, etc. and north to Wyoming. Mexico has a great number of beautiful species also. The flowers of the great majority are very large and brilliantly colored in pink, various hues of red, yellow and purple. Some form finger clumps others are barrel shaped. They like a porous soil, moderate amounts of water and a sunny location.

Echinocereus amoenus. A small globular species with handsome pink blossoms from Mexico. A collector's plant. Rare. 1 1/4"-1 1/2" each.....

\$1

E. fitchii. Frilled Lace Cactus. Handsome small plant pinkish to cream spines, large frilled pink blossoms. Easy to flower. Small 35c. Larger 1 1/2".....

50c

E. dasyacanthus. 5" yellow blossoms. Mature flowering.....

75c

E. delaetii. White spines. Small 2".....

90c

E. maritimus. From Baja, California.....

50c

E. merkeri. Large purple blossoms.....

50c

E. nocturniflorus. Pink. Night flowering.....

50c

E. papillosus. Large yellow blossoms.....

50c

E. reichenbachii. Large pink flowers.....

50c

E. subterraneus. Pink flowers.....

50c

DWARF CHIN CACTUS

An old favorite *Gymnocalycium quehlianum* flowers in spring the blossoms flesh pink. A small biscuit-shaped plant with few spines and coppery green body. Easily grown and flowered in a sunny location. Moderate watering. Large specimens 2 1/2"-3" 7 years \$1.50. 2" 5 years \$1. Small 35c. Small flowering.....

50c



GOLDEN BALL

A very lovely small cactus with glittering golden harmless bristles. *Notocactus leninghausii* is a fine plant for the window garden. Of the easiest culture. Nice 2 1/2"-3" specimens \$1. Small 35c. 3 year old.....

50c



SILVER BALL

An elegant silvery spined small cactus that always attracts attention. *Notocactus scopae* grows well under varied conditions. Bright lemon yellow blossoms which expand flat in the sunlight. Porous soil, moderate watering, sun or part shade. 5 year old flowering specimens \$1. Small 35c. 3 year old.....

50c





ORANGE COB CACTUS

A handsome flowered plant *Lobivia famatimensis* is quite variable. Flowers ranging from yellow to crimson, quite large for the size of the plant. Petals like crepe de chine. It enjoys a sunny location, good porous soil with moderate waterings. Very choice! Large 50c flowering 4 years \$1.25. Nice plants.....



FLAME CACTUS

Pyrrhocactus tuberisulcatus (*P. horridus*) is a very spiny plant from Chile. Flowers dark flame red. The strong, curved spines are intricately interlaced. Flowers freely in late spring. It likes a very sunny location, porous soil and moderate watering. 35c Fine. Small plants.....

PYRRHOCACTUS

Pyrrhocactus curvispinus. A rare species with slender spines.....\$1
Pyrrhocactus tuberisulcatus. See above.
Pyrrhocactus umadeave. A strong spined species.50c

NOTOCACTUS

or Ball Cacti

Some of the most fascinating and loveliest cacti are in this group and I much recommend them knowing they will please in every way. The flowers are particularly bright and cheerful. All South American plants easily grown in a porous soil with moderate watering and a light or sunny position.

Notocactus apricus. Sun Cups. A charming spring blooming plant that bears flowers much larger than itself. A favorite growing so easily. The cheerful yellow blossoms appear in succession at the top of the plant. Specimens 5 years \$1.50. Small 35c. 1 1/4-1 1/2".....50c

N. caespitosus. A rather rare plant with large yellow blossoms. Small flowering.....50c

N. concinnus. A scarce variety with flexible spines. Nice flowering.....50c

N. floricomus. A scarce variety seldom seen. Small.....50c

N. floricomus velanovskii. Rare flowering 2".....\$1

N. graessneri. Yellow Ball. Clear yellow, fine spines. A handsome specimen easily grown. 7 year old specimen \$1.50. Smaller.....50c

N. grossei. A large growing species with big lemon yellow flowers. 3" 4 years. \$1.25. 2".....75c



ARIOCARPUS RETUSUS

These very rare, odd Mexican plants are fine show specimens. Our plants are all mature averaging 2 1/2" to 3 1/2" in diameter and perhaps 25 years in age. They are extremely slow growing. Plant in sand with a small amount of leafmold. Full sun watering lightly only when quite dry. Specimens \$2.75 and \$2.25.

Notocactus hasselbergii. Scarlet Ball. Page 31.

N. hasselbergii stellatus. Rare new variety, yellowish tinged spines very close set. Each \$1

N. leninghausii. Color plate page 29.

N. linckii. A rare species belonging to the *N. ottonis* group. Small.....50c

N. mammulosus. Page 31.

N. muricatus. A scarce plant seldom offered. Nice flowering size specimens \$1.25. Smaller 75c

N. ottonis. Indian Head. Page 28.

N. ottonis longispinus. Long, flexible, brown spines. Distinct variety. 1 1/2" flowering 3 years.....\$1

N. pampeanus. Page 28.

N. rutilans. Pink Ball. Page 25.

N. schumannianus. A very large species with many ribs, wooly crown and large yellow blossoms. Fine show plant. 2 1/2"-3". \$1.50. Small 35c. Nice 1 1/2" specimens.....75c

N. scopa. Silver Ball. Page 29.

N. scopa daenekeriana. A yellow spined variety from Brazil. 1"-1 1/4" each.....50c

A WISCONSIN COLLECTION

Mrs. Hugo Hungsberg has a very nice collection of cacti of which only a part is shown. The large plant in the center is an *Echinopsis* eleven years old when the photo was taken and which has flowered many times. Picture was taken in April before the plants were put out for the summer. Many of her plants have come from our gardens and she has been well satisfied



OURSELF'S CHIN CACTUS

A vigorous plant that may reach 3" in diameter. Flowers are large, opening widely ranging from white to pink in color. Most attractive. *Gymnocalycium ourselianum* is a strong rooted plant producing several flowers in a season. Large 6 years old 50c 2"-2 1/2" \$1.50. Small 35c. Nice.....

Notocactus submammulosus. A very spiny plant with large shining yellow blossoms. Very free flowering each plant producing a circle of blossoms in the spring. 5 years old specimens. \$1.50. Smaller flowering \$1. Nice.....50c

N. tabularis. Biscuit-shaped plants with flexible brown spines and very large yellow flowers. Large 5 year old flowering. \$1.50. Nice. 50c

N. velanovskii. Copper-green plant dark yellow flowers. Spiny. Specimens \$1. Nice.....50c

NEOPORTERIA

A group of barrel cacti native to Chile. Some come from extremely dry regions where the plants are hidden beneath the pebbles. Several are almost impossible to root from cuttings and have to be grown as grafts as seed is seldom produced. A most interesting group for the collector as their form, flowers and habits are diverse.

Neoporteria acutissima. A spiny plant with brown spines and very pretty pink blossoms. Small 35c. Larger 2" \$1. Nice.....50c

N. atrispinosa. Distinct barrel-shaped plant with slender blackish spines and pink blossoms. Nice.....50c

N. castaneoides. A barrel type with strong spines and nice pink flowers. 2"-2 1/2" specimens.\$1



CALIFORNIA BARREL

Ferocactus acanthodes is often called the Fire Barrel as some plants have bright red spines. The spines vary greatly in color from pale straw-yellow to red or more commonly mixed red and yellow. They are found in the hottest parts of our Southern California deserts most often perched among the rocks on steep slopes. Very sandy soil, moderate watering, full sun. 40c Nice 1 1/2" plants.....



TOOTHPICK BARREL CACTUS

Echinocactus wislizeni one of the Mexican "toothpick" cacti grows slowly and with great age becomes 10' tall. No one knows how old these venerable giants are. The small plants are attractively spined the body of the plant bluish. Give a sunny position, moderate watering. Fine 1½" **50c**

Neoporteria fusca. Dark coppery green plant flowering when quite small. Blossoms an odd shade of pink. Quite rare. 4 year old flowering specimen \$1. Nice small flowering..... **50c**

N. heteracantha. A fine, variable plant forming clusters. Flowers pink. Rare..... **50c**

N. mamillarioides. A handsome, strong spined species with bright, dark pink blossoms. The spines are thickly interlaced. The plant barrel shaped. Large 5 years \$1.50. Nice small plants. **50c**

N. napina hybrids. Wonderful for their long blooming period. Flowers pink..... **75c**

N. nigricans. A fine dark colored species with dark red flowers..... **75c**

N. senilis. Chilean Old Lady. This handsome plant has stiff, white curling hair and very large and long pink blossoms. One of the finest cacti particularly when grafted on *Trichocereus spachianus*. 1" each..... **\$1**

N. subgibbosa. Pink Chilean Barrel. Page 27.

FRAILEA

Small plants widely spread over South America. Flowers yellow. Easily grown.

Frailea colombiana. Small plants with very short yellow spines..... **50c**

F. ancistrophora. A much larger species with hooked spines and large yellow flowers probably not of this genus. Each..... **75c**

F. dadakii. Very dwarf plant with butter yellow blossoms. Large..... **50c**

F. pseudopulcherrima. Deep green body with few harmless spines. 3 year flowering..... **50c**

F. pumila. Forms small clusters..... **50c**

F. schilinzkyana. A pretty, much clustered species with coppery body. Inch wide flowers. Clusters, \$1. Smaller..... **50c**



BLACK CHILEAN BARREL

A scarce and pretty cactus with almost black spines producing a myriad of bright carmine red flowers. An attractive plant at all times. Grows well in a good porous loam with moderate waterings. *Neoporteria nigrihorrida* likes a sunny location. 5 year old specimens \$1. Smaller..... **50c**

FEROCACTUS

BARREL CACTUS

This group of spiny Barrel Cacti are found in the southwest and Mexico. Some with great age reach 6' in height. Some are clustered, many are solitary, all seem to be at home in very dry regions.

F. coloratus. A Baja California species with very colorful spines..... **50c**

F. flavovirens. A much clustered Mexican species forming mounds often over a yard square. Pretty when small. 1½"..... **50c**

F. gracilis. A very tall growing species with bright red spines when characterized. From Baja California. 1½"-2" 3 years. **50c**

F. herrerae. A fine Mexican spiny species. Showy. **35c**

F. latispinus. A grand barrel cactus with wide, very strong hooked spines that are quite red in color. Flowers large dark purple. Small **35c**. 2"-2½" colorful specimens. \$1. Large 4"-6" show specimens each.... **\$6**

F. melocactiformis. A very spiny species. **35c**

F. recurvus. A large Mexican barrel cactus. 1¼"-1½" **50c**

F. robustus. Cluster forming..... **50c**

F. tortulospinus. Intricately spined..... **50c**

F. wislizeni. Candy Barrel. From Arizona. **35c**



SCARLET BALL CACTUS

Notocactus hasselbergii is a very handsome and scarce cactus seldom seen in collections. The short bristle-like spines are glossy white. In early spring the spectacular crown of scarlet flowers makes its appearance. Of easiest culture. Flowering specimens \$1.25. Small..... **50c**

PARODIA

An elegant genus of flowering, bright spined cacti from Argentina and Bolivia. They are small globular plants perfectly suited to the window garden. Many are very free in flower the blossoms large produced in succession at the crown. They may be red or various shades of yellow or orange. A good porous loam suits them, moderate watering and a sunny or light position.

Parodia aureispina. Tom Thumb. One of the best cacti for pots. Bright yellow spines, a most attractive clean little plant. Flowers easily and freely the blossoms large, deep golden yellow. A must for every collection. Large flowering \$1. Small **35c**. Nice flowering..... **50c**

P. catamarcensis. First time offered. A very distinct species, barrel-shaped with long, dark gray spines and yellow flowers. Rare, Small **\$1**

R. chrysacanthion. Page 28.

P. mutabilis. Color plate page 36.

P. sanguiniflora. Handsome. Brilliant ruby-red large blossoms. Easy to grow and flower. Very striking. Large **\$1**. Small..... **50c**

AREQUIPA

A fine group from northern Chile and Peru. Small barrel-shaped plants with long, tubular, red flowers. Culture as for *Notocactus*.

Arequipa hazelae. A new species from southern Peru. Flowers crimson plant barrel-shaped sometimes clustered. Each..... **\$1**



NOTOCACTUS MAMMULOSUS

This favorite has handsome, bright yellow blossoms. Surprisingly floriferous and easily grown. Native of Uruguay. Likes a good porous loam, moderate to generous watering and flowers best in a sunny location. Stands considerable cold. It will repay you **\$1.25** for your trouble. Large flowering.....

MALACOCARPUS

A curious group of broadly flat-topped plants with few ribs the crown filled with white wool amongst which the yellow flowers appear followed by suddenly materializing pink fruits. From Argentina, Brazil, Uruguay and Colombia.

Malacocarpus erinaceus. A fine species up to 6" in diameter. Large 5 year flowering.... **\$1**

M. kovaricii. A rare species. 2"..... **\$1.25**

M. pauciareolatus. A large species and one of the best. Small **50c**. 1½" 3 years..... **75c**

M. sellowii (tephracanthus). Handsome large species. Nice flowers. Nice **50c**. Large..... **\$1**

M. vorwerckianus. The Columbian species. Smaller than the others..... **50c**

OBREGONIA

A curious slow growing Mexican cactus close to *Ariocarpus* with hard, silvery green tubercles. Flowers white. Does well in sand with a little leafmold requiring a sunny position, very moderate watering.

Obregonia denegrii. The only species. A very rare plant. Mature flowering plants..... **\$2**

GIANT CHIN CACTUS

The largest of the Chin Cacti. *Gymnocylindium saglionis* may reach 15" in diameter. The chins or tubercles are large and prominent crowned with recurved black spines. The flowers are very short-tubed, soft pink in color. A handsome plant easily grown making a fine show specimen. Small **50c**. 2½"-3" 4 years..... **\$1**





QUEEN OF THE NIGHT

An old favorite whose blossoms are so astoundingly large and ethereally beautiful your friends will be entranced when they see it. *Selenicereus macdonaldiae* is of the easiest culture. Most growers give it too much shade. To mature growth properly give it sun protected only, if at all, at noonday. It likes a porous or spongy soil. Put it outdoors in summer but keep well supplied with water. It is a climber. The stems should be bent around a pot trellis or stakes. Plants.....**50c**

NIGHT BLOOMING CEREI

Selenicereus

These beautiful night blooming cacti surprise the beginner to see such huge blossoms on such small plants. The slender branches should be trained to a stake. Keep well watered in summer.

Selenicereus confiflorus. Spiny. Free flowering.....**75c**
S. donkelaerii. Dwarfish species.....**75c**
S. hamatus. Hooked ribs.....**\$1**
S. hondurensis. Rare.....**75c**
S. murrillii. Slender very long branches with many aerial roots.....**75c**
S. pteranthus. Large flowers.....**75c**
S. werklei. Dwarf.....**75c**

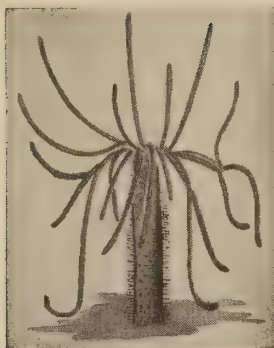


A NEW ENGLAND COLLECTION

The collection of a real fancier Ella M. Jones. All her plants are healthy and seem to thrive in the New England climate.

PYGMAEOCEREUS AKERSII

This decidedly novel new genus of Peruvian cerei is native to the cloud gardens of the coastal mountains. There are now four distinct species of these curious plants three of these I found in widely separated areas. Three grew flush with the ground or buried the fourth entirely above. The roots of all are tuberous or fleshy. White night flowering, long tubed blossoms. Easily grown in bright location. **\$1**



AZUREOCEREUS

These cerei become bright blue in color with age and when well grown are amongst the most beautiful of all. Of the five known species only one is unbranched. They like a hot climate as they are native to the valleys of the tributaries of the Amazon.

Azureocereus ayacuchensis. A bright blue species growing to 10'. Each.....**50c**

A. nobilis. A tall species to 20'. Branches from above 4"-6".....**\$1.50**

A. imperator. A single blue column crowned with a pseudocephalium of glossy white bristles from which the flowers spring. Handsome.....**\$1**

CEPHALOCEREUS

OLD MAN CACTI

A large group ranging from tall trees to 3' columns. Many are clothed with white wool or hair. They are easy to grow requiring a good foam soil, moderate watering and a sunny or bright position.

Cephalocereus arrabidaei. Tall Brazilian species, 6".....**75c**

C. backebergii. New species. 6".....**\$1**

C. curtsii. Spiny. 6".....**75c**

C. fluminensis. Rare.....**\$1**

C. glaucoceros. Dwarf with bright blue stems.....**75c**

C. leucocephalus. Goats Beard.....**75c**

C. mezcalaensis (Neobuxbaumia). A new species.....**50c**

C. palmeri. Woolly Torch. Page 34.

C. polylophus. Tall, heavy, fluted column. A beautiful and impressive specimen.....**50c**



PEANUT CACTUS

One of the most popular of cacti and the easiest to grow. Will often produce 15-20 arms in a season. Should be in every collection. *Chamaecereus sylvestrii* likes moisture, sandy loam soil and grows in sun or part shade. Nice plants.....**35c**

The



CEREUS

A noble and intriguing group of cacti distributed over the warmer parts of North and South America. It contains all the tree cacti except the opuntias. All who have visited Arizona know the Sahuaro but few would recognize some of the very tiny species known to collectors.



GOLDEN EASTER LILY

Handsome bright yellow blossoms opening freely in the spring. *Lobivia aurea* is one of the choice cacti for pots. A vigorous grower liking a good loam soil with moderate waterings and almost full sun. It may grow to 2½" in diameter. Small 35c. Nice flowering.....**50c**



RATTAIL CACTUS

Aporocactus flagelliformis is an old favorite. The slender tail-like stems hang gracefully and in the spring are smothered in showers of lovely crimson pink blossoms. Easily grafted on tall *Selenicereus* or *Opuntias* for weeping standards. Likes a porous, spongy soil. In summer it likes to be outdoors in the sun. Each.....**75c**



SNOWBALL CACTUS

A choice Peruvian cactus, *Pseudoespostoa melanostele*, grows in the dry valleys of the Andes. I have recently collected several new species of these scarce and handsome plants. Snowy white and covered with soft cottony hair. A real prize. Quite sandy soil, very moderate watering, sun. Fine very white 8 year old 6" plants \$1.50. 4" \$1. Smaller.....

50c

Pseudoespostoa molinensis. New.....

\$1

CLEISTOCACTUS

A numerous group found from Peru to Argentina. Mostly slender upright plants but some stout to 8 feet. The blossoms are tubular, generally red and often phenomenally freely produced. Nice pot plants of the easiest culture liking a good loam and moderate watering.

Cleistocactus baumannii. Scarlet Bugler. See below.

C. herzogianus. Tall growing species forming a trunk.....

50c

C. hyalacanthus. Thick snow-white columns branching from the base to 6 feet. Dark red flowers. Handsome. Each.....

50c

C. luminosus. One of the brightest of all with brilliant scarlet blossoms. Sturdy plant.....

75c

C. morawetzianus. Tall vigorous species with stout trunk.....

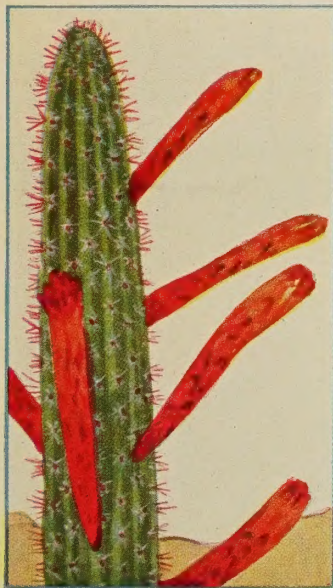
75c

C. strausii. Silver Torch. Handsome white columns branching from the base. Flowers red. Charming. 2"-3".....

35c

C. tupizensis. A fine species with long glossy spines and brilliant red blossoms. Very fine.....

50c



SCARLET BUGLER

You will want this handsome flowered small cactus as it flowers all summer long. Brilliant scarlet tubular blossoms. *Cleistocactus baumannii* likes a good loam soil, moderate to generous waterings. Larger.....

35c

Small 2"-3".....



MOON CACTUS Eriocereus

These are very free growing cacti and flowers abundantly the large snowy blossoms opening in the evening and remaining open in the morning. Likes a rich loamy soil a sunny location and moderate watering. Should be trained to a stake. Native to Argentine. Small 35c. Larger.....

50c



SNAKE CACTUS

The handsome *Nyctocereus serpentinus* should be in every collection. A quick growing prime favorite with lovely fluted green stems. The young spines are bright red. Flowers up and down the stems in greatest profusion the snow white blossoms deliciously fragrant. Easily grown. Small 35c. Nice.....

50c

NYCTOCEREUS

N. chontalensis. New.....

75c

N. oaxacensis. Creeping yellow spined plant with huge tuberous root in old plants.....

75c

N. species nova. Gates and Tegelberg. Pink flowers.....

\$1

HAAGEOCEREUS

Colorful Peruvian plants of varied habit. Many have bright colored spines, red or gold, all have large white or rose colored night blooming flowers. Very porous soil, moderate watering, sunny situation.

Haageocereus acranthus. Brown spines, white flowers. 5"-6".....

\$1.25

H. arenosa. Deep reddish brown spines. New.....

75c

H. caespitosus. Small clumped species.....

\$1

H. cajamarquilla. A form of *H. multangularis*.....

75c

H. multicolorispinus.....

75c

H. olowinskianus. Tall, branching from base. 5".....

\$1

H. pyrrhostele. Brilliant red spined.....

\$1.50

H. stellaspinus. Slender, small clumped species.....

50c

H. tomasiriensis. Small creeping species.....

75c



HEDGE HOG CEREUS

A particularly beautiful flowered cactus from Texas. *Echinocereus pentaloophus* has short, spiny, finger-like stems forming clusters. The 4" brilliantly colored blossoms are far larger and brighter than the illustration shows. Each 50c and.....

35c



PINK EASTER LILY CACTUS

A free flowering, quick growing cactus winter hardy when well protected by snow. *Echinopsis multiplex* bears 6" lovely pink easter lily-like fragrant trumpets. Will flower several times during late spring and early summer. Sun or part shade with generous culture. Flowering size 75c. Small 35c. Nice.....

50c

FROM CUSTOMERS

I just want to tell you how much I like the plants I order from you. They are always just what you say they are and nice healthy plants. Cacti fascinate me and I have a large collection.

Herald Heard,
Alabama.

All the plants I have received from you are doing fine. They are the finest I have ever seen. Just thought I would drop you a line and let you know how pleased I am.

Mrs. M. Bendetto,
Washington.



RATTAIL CACTUS

See page 32 for description.



PERUVIAN APPLE CACTUS
Cereus peruvianus

The small plants of these tree cerei are very pretty, the 4 to 7-angled green stems set with brown spine clusters. The bright red fruits are large, up to 11 ounces, perfectly spineless the snowy white pulp crisp and sweet to eat. Very popular in the semi-tropics as a fruit. Grow fast in good loam. Nice 3 to 5 inches.....

40c

PACHYCEREUS **GIANT CEREUS**

The Pachycerei often grow to immense size in Mexico. They are perhaps the tallest cacti with a record of 63 feet. Small plants are pretty and grow slowly making nice, small specimens. Easy to grow in a sunny location.

Pachycereus pringlei. Giant Mexican Cereus. See rear cover.

P. grandis. A large species. 3" **50c.** 6" **75c**

P. pecten-aboriginum. Native Comb. An odd species the young plants dark mahogany brown. Fruit used for hair combs. 5"-6" **50c**

MARITINOCEREUS

Creeping cacti from southern Peru. Very pretty plants with round, ribbed stems and bright red blossoms. Good loam soil, moderate watering.

Maritnocereus nanus. A dwarf species with large red flowers. Flowers easily and freely as a small 4"-6" pot plant. One of the best new introductions. Each small **50c**

M. gracilis. A larger species flowering very freely over a long summer period hardly ever being out of flowers. 3"-5" **\$1**

LOPHOCEREUS

Mexican cerei mostly from Baja California though also found in Arizona and Sonora. Tall columns with bright pink, small flowers.

Lophocereus schottii. Tall columns branching from the base the flowering tips covered with a dense mass of stiff bristles. Attractive as small plants also. 2"-3" **50c**

ESPOSTOA **PERUVIAN OLD MEN**

The Espostoas are a beautiful white haired group of cerei native to the Peruvian Andes. They are widely spread on both the eastern and western sides. They range from 3 feet to 20 feet tall and may be tree-like or branched from below. Easily grown.

Espostoa lanata. Peruvian Old Man. See photo at right.

E. Canyon del Pato. An extremely white new species of rather slender growth. Large plants only. 8"-10" **\$2**

E. chiletensis. A distinct new species with pinkish color much branched from below. Copious brown pseudocephalium used for stuffing cushion. Nice **\$1**

E. huanucoensis. Pale yellow spines with white hair. A stout handsome new species. 4"-5" specimens **\$1.50**

E. maranonensis. A huge species growing on the banks of the Amazon, up to 20 feet tall with spread of 27 feet. Each **\$1.50**

E. mocupensis. A very tall species with reddish spines branching above with upright arms. Scarlet fruit. Handsome. 7"-8" specimens **\$2.** 5"-6" **\$1.50**



PERUVIAN OLD MAN

Espostoa lanata is clothed in silky white floss. Of simple culture and quick in growth. 6" plants **\$1.** Smaller 2"-3" **40c**



PRINCESS OF THE NIGHT

A glorious white and gold blossom 10" across. A fine night flowering cereus for the window garden. *Selenicereus pteranthus* can be readily flowered. Use a spongy, sandy loam soil or our Jungle Mix modified. Harden growth in later summer with sunshine and less water. Each **75c**

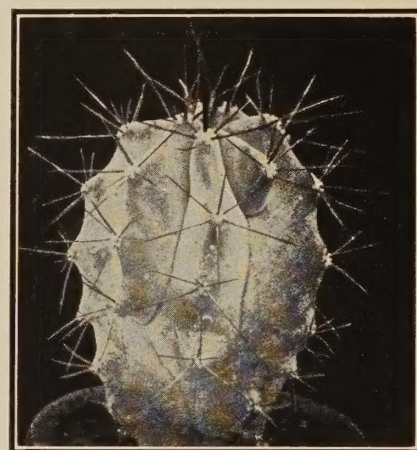
CHAMAECECREUS

Small cerei from Argentina. Much branched dwarfs for pots. Flowers scarlet. Easily grown.

Chamaecereus giganteus. Short stems to 1½" in diameter, clustered, 2 year cluster **\$1**

C. Flame. A fine hybrid much easier to flower than the Peanut Cactus **50c**

C. Jumbo. A 12" tall version of the Peanut Cactus. A giant **75c**



POWDER BLUE CEREUS

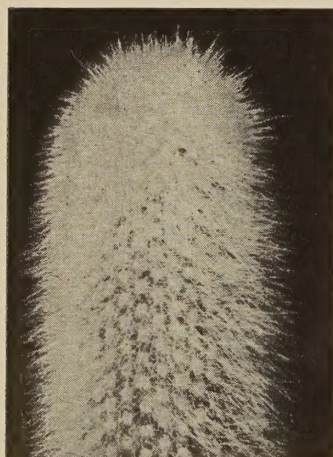
Lemaireocereus pruinosus is most attractive as a small plant with its powder blue, ribbed stems and black spines **35c**

ARTHROCEREUS

A group of small, night flowering cacti from Brazil. Some are much branched others tall and slender.

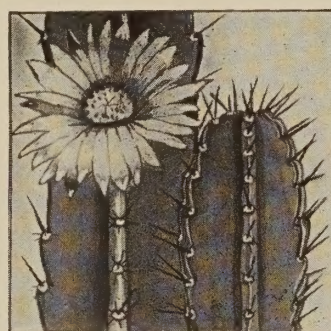
Arthrocareus rondonianus. Tall growing slender plant with straw-yellow spines. Flowers lilac-rose. Each **\$1.25**

A. microsphaericus. Much jointed tiny cereus **\$1**



SILVER TORCH

Cleistocactus strausii is an easily grown plant every collection should have. Bright red flowers in summer, handsome columns branching from the base with soft spines. Sun or part sun. Nice 2"-3" **35c**



CEREUS MILESSIMUS

Fine tree cereus with snowy blossoms, bright red tasty fruits. A quick growing pot plant. Large specimens may be 10 feet tall and much branched. Nice small plants **35c**

CACTI IN HONGKONG

"Many thanks for the prompt attention to my last order of cacti which arrived in perfect condition."

Cesar Rosa,
Hongkong.



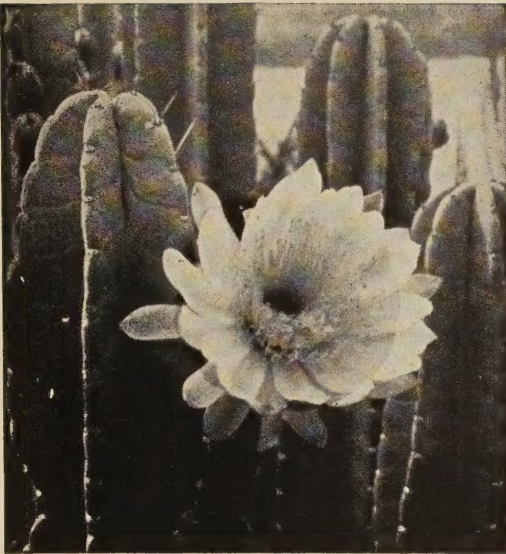
FLOWERING TREE CEREUS

A free flowering specimen plant and pretty large or small. Everyone enjoys *Cereus goniatus* because of its large, lily-like flowers and handsome, tomato-like fruits, sweet and edible with crystalline pulp. Large plants may be stored during winter in a frost-free basement. 6"-8" **75c** 40c Smaller **40c**



WOOLY TORCH

Cephalocereus palmeri grows to 15 feet the stems blue with age, becoming white woolly at flowering time. The silky wool is a great favorite of birds for nest building. 4"-6" **50c.** Smaller **35c**



DAYAM'S TREE CEREUS

One of the best fruiting and flowering kinds. Bears big tomato-like, half pound fruits which are quite fragrant and delicious, the pulp crystalline white and sweet. Tree-like in habit making a good pot plant. Cereus dayamii. Nice..... **35c**

CEREUS

Tree Cereus

These South American cerei bear edible fruit much used by the natives where they grow. Some grow to enormous size. The flowers are white, often red on the outside. Easily grown as pot plants in sun or part shade.

Cereus dayamii. See above.

C. grenadensis. Each **\$1.50**

C. hildmanianus. Tall tree species. Nice..... **40c**

C. horribarbus. Very long spines. Huge tree. **50c**

C. jugatiflorus. Rare species **75c**

C. lepidotus. Rare..... **75c**

C. macrocarpus. Rare..... **75c**

C. pernambucensis. Small growing species. **50c**

C. peruvianus reclinatus. Handsome flowers red on the outside very free in flower..... **35c**

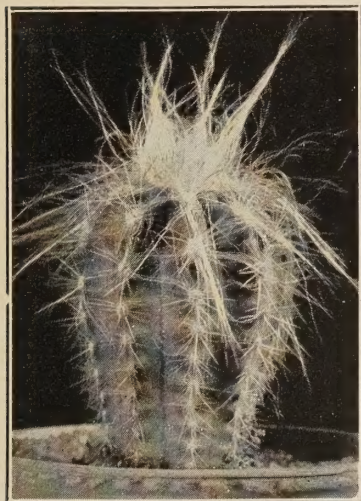
C. vargasiana. New species from Peru. Grows to 50' in height. Very thin ribs..... **75c**

C. variabilis. Small growing. White wooly areoles. **75c**

MEDIOCACTUS

Two Mediocacti are known. They are climbers the stems 3-winged clinging to tree trunks. Easily grown.

Mediocactus megalanthus. A huge, snowy white flowered species I brought back from eastern Peru. 3" golden yellow fruits..... **\$1**



OLD MAN OF THE ANDES

Oreocereus neocelsianus is an Andean cereus with coarse white hair growing to 6 feet. Spines very stout, golden brown. Heavy small specimens **\$1.25**. Small 1"-1½" **50c**

OREOCEREUS

OLD MEN OF THE MOUNTAIN

A noble group of cerei found in the Andes of Peru, Bolivia, Argentina and Chile. Stout columns with strong spines and wispy white hair. Flowers dark red, tubular. Outstanding specimen plants charming when small, spectacular with age. Easily grown.

Oreocereus fossulatus. More slender than others also branching above. 5"-6"..... **75c**

O. hendricksonianus. Peruvian species, quite wooly. Rare. 4"-6" **\$1.50**. Small..... **50c**

O. neocelsianus (celsianus). See photo below.

O. trollii. Lovely white wooly species more dwarf than the others. See photo page 36.

BORZICACTUS

An Eucadorean and North Peruvian genus with bright red or lilac-red blossoms with ribbed or tuberculate stems of upright or creeping habit. Of easy culture, porous loam, moderate waterings and sunny situation.

Borzicactus fieldianus. A rare Peruvian species with ribbed stems to 6'. 3"-4". **\$1.50**

B. sepium. Eucadorean species with ribbed stems, handsome blossoms..... **\$1**

B. sepium. From Otavalo..... **\$1**

B. sepium. From Ambato..... **\$1**

B. subulatus. New Peruvian species with ribbed tuberculate stems..... **\$2**



WHITE TORCH CACTUS

Beautiful, popular and exceedingly easy to grow. *Trichocereus spachianus* is a quick grower. The snowy blossoms are 8" across. Plants branch freely from the base forming nice colonies. Fine stock to graft on. Will stand 15 degrees above zero. 5"-7" 60c. Small **35c**

TRICHOCEREUS

There are a great many *Trichocereus*, some tree-like others clustered or creeping. Many have huge flowers, some of the newer ones in various colors including bright red. It is an inclusive genus and has been split into various new genera. It ranges from Ecuador south to Argentina and Chile. We hope to offer some new and interesting ones in the future. Of simple culture, good porous loam moderate watering and sunny location.

Trichocereus akersii. White hairy plants. A new species. Salmon pink flowers. 2"-3" 5 years old..... **75c**

T. bridgesii. Blue stems. 8" cuttings..... **\$1.25**

T. candicans. Handsome large white flowers from clustered stems. 2"-3" **75c**

T. cuzcoensis. Large white flowers. 8" cuttings..... **\$1.50**

T. fascicularis. Tall very spiny. Peru..... **50c**

T. gladiatus. Much clustered with short arms..... **50c**

T. huanucoensis. Spineless when mature. Huge white flowers **50c**

T. huancayensis. Spiny **50c**

T. infundibuliformis. New species to 15'. 6-8"..... **75c**

T. litoralis. Large, spiny, branched species..... **50c**



OLD MAN CACTUS

The long snowy hair of the venerable *Cephalocereus senilis* makes it much sought after. No collection should be without it. We have some very nice plants this year particularly in the larger sizes. 4"-5" four years **\$1**. 3"-4" **75c**. Small **35c**. Nice 2"-2½" **50c**

Trichocereus lucernatus. Handsome new species..... **\$1.50**

T. pasacana. Stout tall column..... **50c**

T. poco. A red flowered form of this fine species..... **50c**

T. purpureopilosus. Clustered species..... **75c**

T. santiaguensis. **35c**

T. thelegonus. **50c**

LEMAIREOCEREUS

A fine group principally Mexican, some dwarf some to 20 feet. Relatively fast growers with columnar stems. There is a great diversity in the plants, flowers and fruits. Handsome when well grown. Good pot plant for specimens.

Lemaireocereus chichipe. A blue stemmed species quite slow in growth. 3 years..... **50c**

L. dumortieri. Handsome stout green column. **35c**

L. pruinosus. Powder Blue Cereus. Page 34.

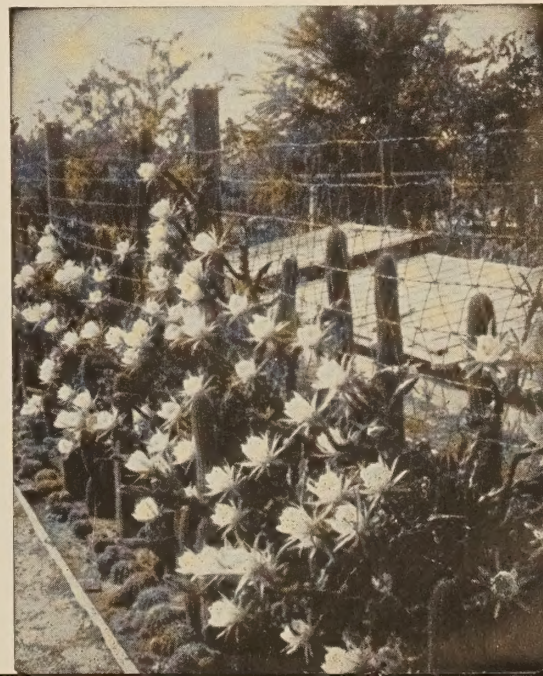
L. stellatus. Tall columns branching from near the base. Pink flowers, dark red fruits, **35c**

L. tetezo. Slow growing blue species..... **50c**

L. thurberi. Arizona Organ Pipe. A handsome species with brilliant green stems and red or black spines. A beauty. Small **40c**. 4"-5" bright specimens..... **60c**

MOON CEREUS

Eriocereus martinii is a free flowering, scandent climber whose charming blossoms are borne at night. Bright red fruits are very attractive. Give it rich soil and a large pot as it is a vigorous grower. If given plenty of sun they flower freely. 6" rooted cuttings from flowering plants **75c**. Small 3"-4" **50c**





PINK CHIN CACTUS

A very floriferous plant *Gymnocalycium flscherianum* has charming flowers varying from white to pink. They come into flower in April and continue through summer to fall. Our plants are rarely without blossoms. They blossom when an inch in diameter. Grow readily and quickly liking a sandy loam soil with feedings of Cactus Food. Protect from the full noonday sun. Large flowering 2"-3" \$1. Small 35c. Nice flowering 50c



PERUVIAN TORCH CACTUS

Trichocereus peruvianus has tall, columnar, bluish stems and large white flowers. The plants may branch from the base or have a short trunk. In the wilds they are sometimes pendent from cliff faces. In the morning the blossoms are lovely against the sky. I took this photo in February in Peru. Nice 1½"-2" plants each 35c

AN ILLINOIS COLLECTION

The plants in flower are various species and hybrids of *Echinopsis* in the collection of Mr. Dean Stuart. The *Echinopsis* or Easter Lily Cacti are heavy bloomers and do very well in the window garden. If you can put them outside in the garden when frosts are over the growth is more matured and compact and can better support the large flowers. Their great beauty is worth a little extra care.



ERIOCEREUS

The Moon Cacti are a fine group of robust South American climbing cacti. They have strong, vigorous root systems and should be shifted into larger pots as the roots fill the old ones. When well grown they are astonishingly free flowering and a hundred flowers in an evening is a common occurrence. A good loam soil.

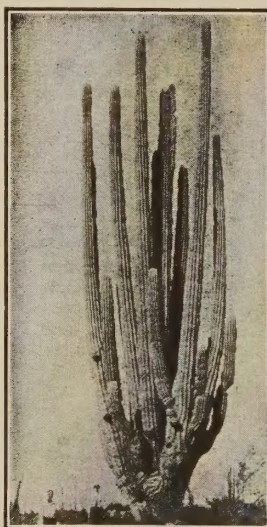
- Eriocereus bonplandii*. One of the handsomest with 6" snowy blossom. A very fine plant. Not very spiny. Each..... 50c
- E. guelichii*. Vigorous species. Fine flowers. 75c
- E. martinii*. See page 35.
- E. pomanensis*. Fine scarce species..... 50c
- E. regelii*. Lovely soft pink, large blossoms. Fine for pots..... 75c
- E. tephacanthus*. (*Roseocereus*). Tall upright columns. Has a trunk. Distinct..... 75c
- E. tortuosus*. Very spiny species. Lovely flowers followed by scarlet fruits..... 50c



PYGMY EASTER LILY CACTUS

Echinopsis hamatacantha

This lovely little species bears pink tinted blossoms several times during spring and early summer. They are mountain plants and like a little shade in mid-summer. The plants have harmless spines and are fast growers flowering freely when small. Seldom reach 3" across. Good loam soil and moderate to generous waterings. Small 35c. Flowering size 3 years 50c



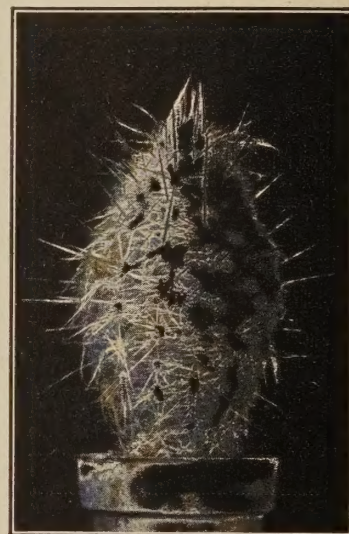
GIANT MEXICAN CEREUS

Pachycereus pringlei is native to Baja California where it has attained 63 feet in height. A noble plant even more stately than the Sahuaro and so far as I know the tallest of all cacti. Slow growing, they are fine window garden subjects. 6"-7" 75c. Small 35c



PARODIA MUTABILIS

This *Parodia* is a beautiful plant with lovely orange-yellow blossoms often with a red eye. Even small plants produce several blossoms in May and June. Of the easiest culture given a good loam soil moderate watering and a sunny or partially shady location. Large 4 year old 2"-2½" specimens \$1. Small 35c. Nice flowering 50c



OLD MAN OF THE MOUNTAIN

Oreocereus trollii is a fine Old Man from Bolivia. They are white-wooly with stout reddish-brown spines. At first fat columns but with age may form clusters. Fine show specimens. Easy to grow in good well drained loam. Give only moderate waterings when dry and a sunny situation. Each 50c

VIOLET EASTER LILY ECHINOPSIS LEUCANTHA

An easily grown species the stout stems blue-green. The heavy ribs bear dark spines. Flowers are large, faintly tinted violet. Fruits are red differing from the others. Good loam soil. Each 35c

